### INTRODUCTORY STATEMENT

These Material Safety Data Sheets are being provided pursuant to requirements of the Fed/OSHA (29 CFR 1910.1200) Final Hazard Communication Standard. The health hazards information on these sheets is based on data believed by Columbia Paint Company to be accurate; however, we do not assume any liability for the accuracy of this information. We neither suggest nor guarantee that any hazards mentioned are the only ones that exist. Anyone intending to rely on any recommendation, or to use any technique, equipment, or material mentioned, should also satisfy himself that he can meet all applicable safety and health standards.

As permitted by OSHA, a Material Safety Data Sheet (MSDS) may apply to a class of products which have similar hazards and contents; refer to the index to locate the correct MSDS for any particular product. To obtain MSDS for Columbia Paint products not in this book, contact your Columbia Paint store or Columbia Paint sales representative.

Please read the proper MSDS and the product label before using one of our products.

IN THE EVENT OF A MEDICAL EMERGENCY, HAVE THE ATTENDING PHYSICIAN CONTACT THE POISON CONTROL CENTER FOR YOUR AREA.

Spokane. Washington: Call the Spokane Poison Control Center at (509) 747-1077.

Washington: (excluding Spokane): Call the Spokane Poison Control Center toll free at 1-800-572-5842.

Idaho and Oregon: Call the Poison Control Center toll free at 1-800-541-5624.

Montana: Call the Poison Control Center toll free at 1-800-525-5042.

North Dakota: Call the Poison Control Center toll free at 1-800-732-2200.

South Dakota: Call the Poison Control Center toll free at 1-800-232-2562. In Rapid City you can also call (605) 341-3333.

<u>Utah:</u> Call the Poison Control Center toll free at 1-800-456-7707. In Salt Lake City you can also call (801) 581-7504.

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## AZARDOUS MATERIALS IDENTIFICATION SYSTEM® OVERVIEW

degree of the hazard. The following chart describes the severity of the different hazard classifications. The personal protection index is on the following page. Each of the classifications, HEALTH, FLAMMABILITY, REACTIVITY, stand for a specific kind of hazard. PERSONAL PROTECTION indicates the necessary protective equipment to be worn when working with the product. The hazard index indicates the

7	HEALTH HAZARD RATING	9		FLAMMABILITY	HAZARD RATING	REACTIVITY HAZARD RATING	ZARD RATING
0	MINIMAL HAZARD no significant	no significant risk to health.	°.		materials which are normally	O MINIMAL HAZARD	materials which are normally stable,
•			1, 5		heated.		will not react with water.
_	SLIGHT HAZARD irritation or n	irritation or minor reversible injury		SLIGHT HAZARD	materials that must be preheated	1 SLIGHT HAZARD	materials which are normally stable,
, 1, <b>-</b>					before ignition will occur.		but can become unstable at high
7.					Flammable liquids in this category		temperatures and pressures. These
					will have flash points (the lowest		materials may react with water, but
					temperature at which ignition will		will not release energy violently.
7.5					CLASS IIIB)		
2	MODERATE HAZARD temporary or minor injury may occur.		N	MODERATE HAZARD	ch must be	2 MODERATE HAZARD	materials which in themselves are
1					moderately heated before ignition		normally stable and will readily
					will occur, including flammable		undergo violent chemical change, but
٠.					liquids with flash points at or		will not detonate. These materials
-					ABOVE 100°F and below 200°F.		may also react violently with
ω,							water.
ىد	SERIOUS HAZARD major injury li	major injury likely unless prompt	ယ	SERIOUS HAZARD	materials capable of ignition	3 SERIOUS HAZARD	materials which are capable of
		action is taken and medical treatment			under almost all normal		detonation or explosive reaction, but
	is given				temperature conditions, including		require a strong initiating source, or
	•				ŏ		must be heated under confinement
		•			below 73°F and boiling points		before initiation, or materials which
					above 100°F as well as liquids		react explosively with water
					with flash points between 73°F.		Touch collection of man maker.
-					(NFPA Classes IB and IC)		
4	SEVERE HAZARD life threatening	ife threatening major or permanent	4	SEVERE HAZARD	very flammable gasses or very	4 SEVERE HAZARD	these materials are readily capable
		damage may result from single or			volatile flammable liquids with		of detonation or explosive
	repeated exposures	osures.			flash points below 73°F and		decomposition at normal
					boiling points below 100°F.		temperatures and pressures.
					(NFPA Class IA)		

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# azardous Materials Identification System

## HAZARD INDEX

3 Serious Hazard 4 Severe Hazard

2 Moderate Hazard

Slight Hazard

Minimal Hazard

HEALTH.

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FLAMMABILITY

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REACTIVITY

PERSONAL PROTECTION

### PERSONAL PROTECTION INDEX

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Ask your supervisor for guidance

Air Line Hood or Mask

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Shield

Splash Ð



Gloves









Dust Respirator

Vapor Respirato

Dust & Vapor Respirator











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02-042-WB	02-265-WB	02-735-P		2-766-WB	
02-230-WB	02-266-WB	02-752-W	/B	12-700-VVD	THE REPORT OF THE PERSON OF TH
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	NORTH 112 HAV	ËN STREET	하는 말로 한 문화화에 되었다.		
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ADDRESS: NORTH 112 HAVEN STREET
ADDRESS: P.O. BOX 4569
CITY, STATE: SPOKANE, WA 99202

EMERGENCY TELEPHONE NO. INFORMATION TELEPHONE NO. DAY: 509-535-9741 NIGHT: 1-800-42 DAY: 509-535-9741 NIGHT: 1-800-42 DAY: 509-535-9741

NIGHT: 1-800-424-9300 NIGHT: 1-800-424-9300

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### SECTION: - PRODUCT IDENTIFICATION TAPA PRINCE OF A CALL

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE PRODUCT CLASS: VINYL-ACRYLIC LATEX RESIN COATING

TRADE NAME: SEE TABLE OF CONTENTS
HMIS INFORMATION\*\*
HEALTH - 1
REACTIVITY - 1

FLAMMABILITY - 0
PERSONAL PROTECTIVE EQUIPMENT - B

### SECTION II.— HAZARDOUS INGREDIENTS

INGREDIENT MATERIAL DESCRIPTION	CAS#	% BY WEIGHT	TLV PPM	- (TWA) MG/M3	LEL.	VAPOR PRESS MMHG DEG F.
MAGNESIUM SILICATE (TALC)	*14807-966	<1.0-9.50*	Not Est*	2.00*	Unk.*	Unknown
ETHYLENE GLYCOL	*107-21-1	1.07-6.06*	50.00*	125.00*	,3,2*	.08 @ 68.0
2,2,4 TRIMETHYL PENTANE DIOL-1,3 MONOISOBUTYRATE	*25265774	<1.0-3.33	Not Est*	Not Est*	Unk.	1.00 @ 189.0
TITANIUM DIOXIDE	*13463-67-7	.6.00-22.55*	Not Est*	10.00*	<sub>⊙</sub> ,Unk.*	Unknown

THIS PRODUCT CONTAINS HAZARDOUS COMPONENTS WHICH MAY BECOME AIRBORNE AND RESULT IN EXPOSURE WHEN REMOVED BY ABRASIVE BLASTING, SANDING, OR GRINDING. VENTILATE AND AVOID BREATHING DUSTS.

### SECTION III — PHYSICAL DATA

BOILING RANGE: VAPOR PRESSURE: VAPOR DENSITY: **EVAPORATION RATE** WEIGHT PER GALLON: % VOLATILE BY VOLUME: HIGH 471.0 DF LOW 212.0 DF SEE SECTION II LIGHTER THAN AIR SLOWER THAN BUTYL ACETATE

9.9 - 11.7 42.4 - 80.4. 27.9 - 67.8

% VOLATILE BY WEIGHT: APPEARANCE - ODOR: PH - SOLUBILITY:

WHITE LIQUID, AMMONIA ODOR 8.5 - 9.5, DILUTABLE IN WATER

SECTION IV — FIRE AND EXPLOSION HAZARD DATA.

SMOR. ASMORE

FLAMMABILITY CLASSIFICATION LOWEST FLASHPOINT T.C.C. 200.0 DF

OSHA-CLASS III-B DOT - NOT REGULATED LOWER EXPLOSION LEVEL (LEL)

EXTINGUISHING MEDIA:

EXTINGUISHING MEDIA: () FOAM () CO2

EXTINGUISHING MEDIA: () FOAM () CO2

() DRY CHEMICAL (X) WATER FOG () OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: MATERIALS WILL NOT SUSTAIN COMBUSTION UNLESS WATER HAS EVAPORATED. CLOSED CONTAINERS MAY EXPLODE FROM STEAM PRESSURE WHEN EXPOSED TO EXTREME HEAT.

SPECIAL FIRE FIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AS PROTECTION FROM MATERIALS COMPUSITION BROOKERS. FROM HAZARDOUS COMBUSTION PRODUCTS.

### SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: EXCESS INHALATION OF VOLATILIZED AMMONIA MAY PRODUCE HEADACHE, NAUSEA, IRRITATION TO RESPIRATORY TRACT. SKIN CONTACT MAY PRODUCE IRRITATION DUE TO SLIGHT ALKALINITY. PRESENCE OF VOLATILIZED AMMONIA COULD IRRITATE EYES. EXCESS INHALATION OF VOLATILIZED ETHYLENE GLYCOL MAY CAUSE IRRITATION OF THE NOSE AND THROAT WITH HEADACHE. NAUSEA, AND VOMITING. ETHYLENE GLYCOL CAN BE HARMFUL OR FATAL IF SWALLOWED. SEVERE KIDNEY DAMAGE FOLLOWS THE SWALLOWING OF LARGE AMOUNTS OF ETHYLENE GLYCOL. LIQUID, VAPOR, AND MIST MAY CAUSE EYE IRRITATION. RATS EXPOSED TO TITANIUM DIOXIDE DUST AT 250. MG/M² DEVELOPED LUNG CANCER; HOWEVER, SUCH EXPOSURE LEVELS ARE NOT ATTAINABLE IN THE WORK PLACE. LONG TERM EXCESSIVE EXPOSURE TO TALC DUST MAY CAUSE TALCOSIS, A PULMONARY FIBROSIS, WHICH IN TURN MAY LEAD TO SEVERE AND PERMANENT DAMAGE TO THE LUNG.
PRIMARY ROUTE(S) OF EXPOSURE: (X) DERMAL. (X) INHALATION. () INGESTION.
EMERGENCY AND FIRST AID PROCEDURES: FOR IRRITATION DUE TO INHALATION, REMOVE TO FRESH AIR. FOR EYE CONTACT, FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. IN CASE OF INGESTION, DRINK 1:-2 GLASSES OF WATER TO DILUTE. DO NOT INDUCE VOMITING. CONSULT PHYSICIAN OR POISION CONTROL CENTER IMMEDIATELY.

MÉDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: ETHYLENE GLYCOL MAY AGGRAVATE EXISTING KIDNEY DISEASE.

### SECTION VI — REACTIVITY DATA

STABILITY: (.) UNSTABLE (X) STABLE
HAZARDOUS POLYMERIZATION (.) MAY OCCUR (X) WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: THE DRY PAINT FILM CAN BURN AND PRODUCE ONE OR MORE OF THE FOLLOWING:
CARBON DIOXIDE, CARBON MONOXIDE, HYDROGEN CHLORIDE, AND/OR OXIDES OF NITROGEN.
CONDITIONS TO AVOID: EXCESSIVE HEAT.
INCOMPATIBILITY (MATERIALS TO AVOID): NONE REASONABLY FORESEEABLE. Z, totomo i gromani \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEARING PROTECTIVE GLOVES, WIPE UP LIQUID MATERIAL WITH ABSORBENT CLOTH

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

### SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN RESTRICTED VENTILATION AREAS - APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO REMOVE PARTICULATES AND VAPOR. VENTILATION: PROVIDE AIR MOVEMENT TO REMOVE EXCESS VAPORS.

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION: SAFETY GLASSES.

OTHER PROTECTIVE EQUIPMENT: NONE.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM.

STOPPE SERVICE SERVICE OF SERVICES ASSESSED.

### SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE IN EXCESSIVE HEAT (ABOVE 120 DF). USE WITH ADEQUATE VENTILATION. OTHER PRECAUTIONS: AVOID CONTACT WITH EYES.

### SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

PERCENT BY CAS# **CHEMICAL NAME** WEIGHT 107-21-1 ETHYLENE GLYCOL 1.07 - 6.06%

> **用其实物质**

includes the following:

01-002-WB 01-044-PP 01-234-WB 01-727-PP 02-737-WB 01-236-WB

02-750-WB 02-777-WB 02-756-WB

02-781-WB 05-058-WB 88-195-WW

\*

05-200-PP 09-300-WB

FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME:

ADDRESS: ADDRESS: CITY, STATE: COLUMBIA PAINT COMPANY NORTH 112 HAVEN STREET P. O. BOX 4569

SPOKANE, WA 99202

EMERGENCY TELEPHONE NO.

DAY: 509-535-9741

NIGHT: 1-800-424-9300

DAY: 509-535-9741 NIGHT: 1-800-424-9300 INFORMATION TELEPHONE NO. \*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SECTION I — PRODUCT IDENTIFICATION

PRODUCT CLASS: VINYL - ACRYLIC LATEX RESIN COATING
TRADE NAME: SEE TABLE OF CONTENTS
HMIS INFORMATIONS

HMIS INFORMATION\*\*

HEALTH - 1.

FLAMMABILITY - 0

REACTIVITY - 1 PERSONAL PROTECTIVE EQUIPMENT - E

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT MATERIAL DESCRIPTION	CAS#	% BY WEIGHT	TLV PPM	- (TWÁ) MG/M3	LEL	VAPOR PRESS MMHG	DEG F.
ETHYLENE GLYCOL	*107211	<1.0-2.75*	50.00*	125.00*	3.2*	.08 @	68.0
2,2,4 TRIMETHYL PENTANE DIOL-1,3 MONOISOBUTYRATE	*25265774	1.0-1.92*	Not Est*	Not Est*	Unk.*	1.00 @	189.0
CRYSTALLINE SILICA -suspected carcinogen	*14808-60-7	1.0-35.62*	Not Est*	.10* *	CUnk*	Unkı	nown
CRYSTALLINE SILICA -suspected carcinogen	*14464-46-1	1.0-4.22*	Not Est*	.05*	Unk.*	Unki	nown
SILICEOUS MUSCOVITE MICA -suspected carcinoge	*1318-94-1	<1.0-4.93*	Not Est*	3.00*	Unk.*	Unki	nown
TITANIUM DIOXIDE	*13463-67-7	1.50-20.91*	Not Est*	10.00*	Unk.*	Unk	nown

THIS PRODUCT CONTAINS HAZARDOUS COMPONENTS WHICH MAY BECOME AIRBORNE AND RESULT IN EXPOSURE WHEN REMOVED BY ABRASIVE BLASTING; SANDING; OR GRINDING: VENTILATE AND AVOID BREATHING DUSTS. 

SECTION III - PHYSICAL DATA

BOILING RANGE:

VAPOR PRESSURE: VAPOR DENSITY:

HIGH 471.0 DF LOW 212.0 DF

SEE SECTION II LIGHTER THAN AIR

SLOWER THAN BUTYL ACETATE

**EVAPORATION RATE** WEIGHT PER GALLON: % VOLATILE BY VOLUME: % VOLATILE BY WEIGHT: APPEARANCE - ODOR:

10.2 - 13.7 50.8 - 74.7 30.1 - 58.9

PH - SOLUBILITY:

WHITE LIQUID, AMMONIA ODOR 8.5 - 9.5, DILUTABLE IN WATER

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION

OSHA-CLASS III-B DOT - NOT REGULATED

LOWEST FLASHPOINT T.C.C. 200.0 DF LOWER EXPLOSION LEVEL (LEL) N/A

EXTINGUISHING MEDIA: () FOAM () CO2

() DRY CHEMICAL (X) WATER FOG () OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: MATERIALS WILL NOT SUSTAIN COMBUSTION UNLESS WATER HAS EVAPORATED. CLOSED CONTAINERS MAY EXPLODE FROM STEAM PRESSURE WHEN EXPOSED TO EXTREME HEAT. SPECIAL FIRE FIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AS PROTECTION

FROM HAZARDOUS COMBUSTION PRODUCTS.

### SECTION V — HEALTH HAZARD DATA

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: EXCESS INHALATION OF VOLATILIZED AMMONIA MAY PRODUCE HEADACHE, NAUSEA, IRRITATION TO RESPIRATORY TRACT. SKIN CONTACT MAY PRODUCE IRRITATION DUE TO SLIGHT ALKALINITY. PRESENCE OF VOLATILIZED AMMONIA COULD IRRITATE EYES. EXCESS INHALATION OF VOLATILIZED ETHYLENE GLYCOL MAY CAUSE IRRITATION OF THE NOSE AND THROAT WITH HEADACHE, NAUSEA, AND VOMITING. ETHYLENE GLYCOL CAN BE HARMFUL OR FATAL IF SWALLOWED. SEVER KIDNEY DAMAGE FOLLOWS THE SWALLOWING OF LARGE AMOUNTS OF ETHYLENE GLYCOL. LIQUID, VAPOR, AND MIST MAY CAUSE EYE IRRITATION. CRYSTALLINE SILICA DUST CAN CAUSE UPPER RESPIRATORY IRRITATION AND IRRITATION TO EYES. PROLONGED OVEREXPOSURE TO SILICA DUST BY INHALATION MAY CAUSE DELAYED LUNG INJURY/DISEASE (SILICOSIS). ON THE BASIS OF INITIAL EXPERIMENTAL TESTS IN ANIMALS AND LIMITED EPIDEMIOLOGICAL STUDIES IN HUMAN POPULATIONS, THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED THAT THERE IS LIMITED EVIDENCE FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA TO HUMANS. RATS EXPOSED TO TITANIUM DIOXIDE DUST AT 250 MG/M³ DEVELOPED LUNG CANCER; HOWEVER, SUCH EXPOSURE LEVELS ARE NOT ATTAINABLE IN THE WORK PLACE.

PRIMARY ROUTE(S) OF EXPOSURE: (X) DERMAL (X) INHALATION () INGESTION

EMERGENCY AND FIRST AID PROCEDURES: FOR IRRITATION DUE TO INHALATION, REMOVE TO FRESH AIR. FOR EYE CONTACT, FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. IN CASE OF INGESTION, DRINK 1-2 GLASSES OF WATER TO DILUTE. DO NOT INDUCE VOMITING. CONSULT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

INDUCE VOMITING. CONSULT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: ETHYLENE GLYCOL MAY AGGRAVATE EXISTING KIDNEY DISEASE. INDIVIDUALS WITH PULMONARY AND/OR RESPIRATORY DISEASE INCLUDING, BUT NOT LIMITED TO, ASTHMA AND BRONCHITIS SHOULD NOT BE EXPOSED TO SILICA DUSTS.

### SECTION VI — REACTIVITY DATA

STABILITY: () UNSTABLE (X) STABLE
HAZARDOUS POLYMERIZATION () MAY OCCUR (X) WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: THE DRY PAINT FILM CAN BURN AND PRODUCE ONE OR MORE OF THE FOLLOWING:
CARBON DIOXIDE, CARBON MONOXIDE, HYDROGEN CHLORIDE, AND/OR OXIDES OF NITROGEN.

CONDITIONS TO AVOID: EXCESSIVE HEAT.

INCOMPATIBILITY (MATERIALS TO AVOID): NONE REASONABLY FORESEEABLE.

### SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEARING PROTECTIVE GLOVES, WIPE UP LIQUID MATERIAL WITH ABSORBENT CLOTH.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

### SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN RESTRICTED VENTILATION AREAS - APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO REMOVE PARTICULATES AND VAPOR.

VENTILATION: PROVIDE AIR MOVEMENT TO REMOVE EXCESS VAPORS.

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION: SAFETY GLASSES.

OTHER PROTECTIVE EQUIPMENT: NONE.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM.

### SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE IN EXCESSIVE HEAT (ABOVE 120 DF). USE WITH ADEQUATE VENTILATION.

OTHER PRECAUTIONS: AVOID CONTACT WITH EYES.

### SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

PERCENT BY CAS# **CHEMICAL NAME** WEIGHT,

107-21-1 ETHYLENE GLYCOL <1.00 - 2.75%

### 

**MATERIAL SAFETY DATA SHEET GROUP 3** 

07-073-10 07-073-44 07-073-45 07-073-62 07-073-63 includes the following: 07-428-PP 07-441-PP

07-490-CC 07-551-PP

07-580-10 07-999-PP

FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME: COLUMBIA PAINT COMPANY

ADDRESS:

NORTH 112 HAVEN STREET

ADDRESS: CITY, STATE: P. O. BOX 4569 SPOKANE, WA 99202

**EMERGENCY TELEPHONE NO.** 

DAY: 509-535-9741

NIGHT: 1-800-424-9300

NIGHT: 1-800-424-9300

INFORMATION TELEPHONE NO.

DAY: 509-535-9741

SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE PRODUCT CLASS: SYNTHETIC ALKYD RESIN COATING TRADE NAME: SEE TABLE OF CONTENTS

**HMIS INFORMATION\*\*** 

HEALTH - 2 **REACTIVITY - 1**  FLAMMABILITY - 3

PERSONAL PROTECTIVE EQUIPMENT - J

SECTION II — HAZARDOUS INGREDIENTS VAPOR PRESS % BY INGREDIENT-TLV - (TWA) PPM MG/M3 DEG F. MATERIAL DESCRIPTION CAS# WEIGHT LEL MMHG 77.0 VM&P NAPTHA \*8030306 <1.0-31.45\* 300.001 1350.00\* 1.0\* 26.00@ ISOPROPANOL \*67630 <1.0-10.50\* 400.00\* 980.00\* 25.0\* 33.00@ 68.0 1.0\* 6.00@ 68.0 XYLENE (MIXED ISOMERS) \*1330-20-7 <1.0-40.49 100 001 434 00\* 1.2\* **ETHYL BENZENE** \*100414 <1.0-8.29\* 100 00\* 435.00\* 10.00@ 78.6 Unknown .05\* Unk. LEAD AS IN LEAD CHROMATE \*7439-92-1 <.10-14.60\* Not Est\* -suspected carcinogen \*7440-47-3 .05\* Unk.\* Unknown CHROMIUM AS CR (VI) <.10-3.11 Not Est\* -known carcinogen \*1333864 <1.0-2.57 Not Est\* 3.50\* Unk. Unknown CARBON BLACK \*14807-96-6 2.00\* Unk.\* Unknown MAGNESIUM SILICATE (TALC) <1.0-27.25 Not Est\* CRYSTALLINE SILICA \*14464-46-1 .05\* Unk.\* Unknown <1.0-6.21\* Not Est\* -suspected carcinogen , 74 9 kg Unknown LEAD, AS IN LEAD DRIER <.10-.17 Not Est\* .05\* Unk.\* 100.00\* 22.00@ 68.0 **TOLUENE** \*108883 <1.0-9.31\* 375.00\* 1.2\*

THIS PRODUCT CONTAINS HAZARDOUS COMPONENTS WHICH MAY BECOME AIRBORNE AND RESULT IN EXPOSURE WHEN REMOVED BY ABRASIVE BLASTING, SANDING, OR GRINDING. VENTILATE AND AVOID BREATHING DUSTS.

50.00\*

Not Est\*

SECTION III — PHYSICAL DATA

BOILING RANGE: VAPOR PRESSURE: VAPOR DENSITY:

\*\*\*\*\*\*\*\*\*\*

**HEXANE** 

**CRYSTALLINE SILICA** 

-suspected carcinogen

306.0 - 399.0 DF LOW HIGH

<1.0-7.60

<.10-15.11\*

180.0 - 277.0 DF

180.00\*

.10\*

SEE SECTION II **HEAVIER THAN AIR** 

**EVAPORATION RATE** WEIGHT PER GALLON: SLOWER THAN BUTYL ACETATE

9.4 - 12.351.2 - 67.7

\*110543

\*14808-60-7

% VOLATILE BY VOLUME: % VOLATILE BY WEIGHT: 27.4 - 49.1

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

OSHA-CLASS IB-IC FLAMMABILITY CLASSIFICATION

**DOT - FLAMMABLE LIQUID** 

1.0\*

Unk.\*

125.00@

68.0

Unknown

FLAMMABILITY CLASSIFICATION OSHA-CLASS IB-IC DO1 - FLAMMABLE LIQUID
LOWEST FLASHPOINT T.C.C. 50.0 - 77.0 DF LOWER EXPLOSION LEVEL (LEL) 1.0%

EXTINGUISHING MEDIA' (X) FOAM (X) CO2

(X) DRY CHEMICAL () WATER FOG () OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP AWAY FROM HEAT, SPARKS, AND FLAME. VAPORS MAY IGNITE EXPLOSIVELY.

VAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILD-UP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS AND TURN OFF HEATERS, NON-EXPLOSION PROOF ELECTRICAL EQUIPMENT, AND ALL OTHER SOURCES OF IGNITION UNTIL VAPORS ARE GONE. IN
CLOSED CONTAINERS, PRESSURE BUILDUP MAY OCCUR DUE TO HEAT EXPOSURE. DURING EMERGENCY CONDITIONS, OVEREX-

POSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT.

POSURE TO DECOMPOSITION PHODUCTS MAY CAUSE A REALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT.

OBTAIN MEDICAL ATTENTION. (SEE SECTION VI).

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. HOWEVER, WATER MAY BEUSED TO COOL CLOSED

CONTAINERS TO PREVENT PRESSURE BUILDUP. FULL PROTECTIVE EQUIPMENT RECOMMENDED, INCLUDING SELF-CONTAINED BREATHING APPARATUS, TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS.

BREATHING APPARATUS, TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING TOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR DEATH. CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR DEATH. GENERAL PROPERTY OF THE SKIN, LEADING TO IRRITATION AND DERMATITION, NAUSEA, VOMITING, AND/OR DIARRHEA. EYE CONTACT CAN CAUSE INCESTION MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND/OR DIARRHEA. EYE CONTACT CAN CAUSE SEVERE REPITATION AND DEFAT SEVERE IRRITATION AND DERMATITUS. CRYSTALLINE SILICA DUST CAN CAUSE UPPER RESPIRATORY IRRITATION THE SKIN, LEADING TO IRRITATION AND DERMATITUS. CRYSTALLINE SILICA DUST BY INHALATION MAY CAUSE DELIAYED LUNG INJURY AND IRRITATION OF EYELOYED. ON THE BASIS OF INITIAL EXPERIMENTAL TESTS IN ANIMALS AND LIMITED EPIDEMIOLOGICAL STUDIES IN DISEASE (SILICOSIS). ON THE BASIS OF INITIAL EXPERIMENTAL TESTS IN ANIMALS AND LIMITED EPIDEMIOLOGICAL STUDIES IN DISEASE (SILICOSIS). ON THE BASIS OF INITIAL EXPERIMENTAL TESTS IN ANIMALS AND LIMITED EPIDEMIOLOGICAL STUDIES IN DISEASE (SILICOSIS). THAT THE TERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED INHAT THE REPAIL TONLA AND THE TESTS IN ANIMALS AND LIMITED EPIDEMIOLOGICAL STUDIES IN DISEASE (SILICOSIS). HAS CONCLUDED THAT THERE IS LIMITED HAVE SEVERE AND FOR THAT THE SILICA TO HUMANS, CHRONIC EFFECTS, REPEATED OVEREXPOSURE TO EVIDENCE FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA TO HUMANS, CHRONIC EFFECTS, REPEATED OVEREXPOSURE TO EVEREXPOSURE TO LEAD DISACCHERY HAVE AND THE SUBJECT OF THE FOLLOWING: CENTRAL NERVOUS, URINARY, AND REPRODUCTIVE SYSTEMS. LEAD THOM MAY

SHOULD NOT BE EXPOSED TO SILICA DUSTS.

SECTION VI -- REACTIVITY DATA

(X) - UNSTABLE - MAY OCCUR

STABILITY: ()-UNSTABLE (X)-UNSTABLE
HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY
HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY

HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY INCLUDE ONE OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, ACROLEIN, HYDROGEN CHLORIDE, OXIDES OF NITROGEN, LEAD AND CHROMIUM OXIDES.

CONDITIONS TO AVOID: HIGH TEMPERATURES OR DIRECT HEATING.
INCOMPATIBILITY (MATERIALS TO AVOID): OXYGEN AND STRONG OXIDANTS, STRONG ACIDS, STRONG BASES, AND AMINES. WILL DISSOLVE OR SOFTEN SOME PLASTICS AND RUBBER.

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS). VENTILATE AREA, CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. REFER TO OTHER HAZARD CAUTIONS CONTAINED ON THIS SHEET BEFORE ATTEMPTING CLEAN-UP.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE

CLOSED CONTAINERS.

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN
CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.
VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY
AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE
ADEQUATE TO PREVENT THE TLV'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.
PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.
EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.
OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON AND CLOTHING.
HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY.

SECTION IX — SPECIAL PRECAUTIONS
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME. NO SMOKING OR

HER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. STORE IN SEALED CONTAINERS AWAY FROM SPACE HEATING EQUIPMENT. CONTAINS LEAD CHROMATE.

SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372: PERCENT BY

CAS#	CHEMICAL NAME	WEIGHT
1330-20-7 100-41-4 7439-92-1 7440-47-3 108-88-3	XYLENE (MIXED ISOMERS) ETHYL BENZENE LEAD CHROMIUM TOLUENE	<1.0 - 40.49% <1.0 - 8.29% <.10 - 14.71% <.10 - 3.11% <10 - 9.31%

### \* MATERIAL SAFETY DATA SHEET GROUP 4.

includes the following:

04-718-PP 07-073-MB 07-073-28 07-073-61 07-426-PP 07-580-00 07-006-PP 07-073-WB 07-073-65 07-073-40 07-437-PP 07-590-WB 07-073-DB 07-073-XX 07-073-43 07-073-70 07-480-WW 07-675-55

### FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME:

ADDRESS: ADDRESS:

COLUMBIA PAINT COMPANY NORTH 112 HAVEN STREET

P. O. BOX 4569

CITY, STATE:

SPOKANE, WA 99202

EMERGENCY TELEPHONE NO. INFORMATION TELEPHONE NO. DAY: 509-535-9741 DAY: 509-535-9741

NIGHT: 1-800-424-9300 NIGHT: 1-800-424-9300

SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE PRODUCT CLASS: SYNTHETIC ALKYD RESIN COATING TRADE NAME: SEE TABLE OF CONTENTS

**HMIS INFORMATION\*\*** 

HEALTH - 2 REACTIVITY - 1

FLAMMABILITY - 3

PERSONAL PROTECTIVE EQUIPMENT - J

### SECTION II — HAZARDOUS INGREDIENTS

					.0	VAPOR	1.0
MATERIAL DESCRIPTION	CAS#	% BY WEIGHT	TLV - (	TWA) MG/M3	LEL	PRESS MMHG	DEG
CARBON BLACK	*1333864	<1.0-3.40*	Not Est*	3.50*	Unk.*	Unkno	wn
VM&P NAPTHA	*8030306	<1.0-28.01*	300.00*	1350.00*	1.0*	26.00 @	77.0
XYLENE (MIXED ISOMERS)	*1330-20-7	<1.0-44.95*	100.00*	434.00*	1.0*	6.00@	68.0
ETHYL BENZENE	*100414	<1.0-9.21*	100.00*	435.00*	1.2*	10.00 @	78.6
MINERAL SPIRITS	*8052-41-3	<1.0-30.01*	100.00*	Not Est*	1.0*	2.00 @	68.0
MAGNESIUM SILICATE (TALC)	*14807-96-6	<1.0-27.73*	Not Est*	2.00*	Unk.*	Unkno	wn
TOLUENE	*108883	<1.0-13.60*	100.00*	375.00*	1.2*	22.00 @	68.0
2-BUTOXY ETHANOL -exposure contrb via skin	*111762	<1.0-1.43*	25.00*	120.00*	1.1*	.60 @	68.0
TITANIUM DIOXIDE	*13463-67-7	* 0.00-25.31*	Not Est*	10.00	Unk.*	Unkno	wn
HEXANE	*110543	>1.0-7.63*	50.00*	180.00*	1.0*	125.00 @	68.0
ISOPROPANOL	*67630	>1.0-5.09*	400.00*	980.00*	25.0*	33.00 @	68.0
CRYSTALLINE SILICA -suspected carcinogen	*14808-60-7	<.10-15.11*	Not Est*.	10*	Unk.*	Unknov	
CRYSTALLINE SILICA -suspected carcinogen	*14464-46-1	>.10-6.35*	Not Est*.	05*	Unk.*	Unknov	wn

THIS PRODUCT CONTAINS HAZARDOUS COMPONENTS WHICH MAY BECOME AIRBORNE AND RESULT IN EXPOSURE WHEN REMOVED ABRASIVE BLASTING, SANDING, OR GRINDING. VENTILATE AND AVOID BREATHING DUSTS.

### SECTION III — PHYSICAL DATA

**BOILING RANGE:** VAPOR PRESSURE: VAPOR DENSITY: **EVAPORATION RATE** 

\*\*\*\*\*\*\*\*\*\*

HIGH 306.0 - 399.0 DF LOW 148.0 - 277.0 DF SEE SECTION II

**HEAVIER THAN AIR** 

SLOWER THAN BUTYL ACETATE 7.8 - 12.0

WEIGHT PER GALLON: % VOLATILE BY VOLUME: % VOLATILE BY WEIGHT:

51.0 - 66.6 27.6-59.5

### SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION OSHA-CLASS IB-IC DOT - FLAMMABLE LIQUID
LOWEST FLASHPOINT T.C.C. 50.0 - 98.0 DF LOWER EXPLOSION LEVEL (LEL) 1.0%
EXTINGUISHING MEDIA: (X) FOAM () ALCOHOL FOAM (X) CO2

(X) DRY CHEMICAL () WATER FOG () OTHER
UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP AWAY FROM HEAT, SPARKS, AND FLAME. VAPORS MAY IGNITE EXPLOSIVELY.
VAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILD-UP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS AND TURN OFF HEAT-ERS, NON-EXPLOSION PROOF ELECTRICAL EQUIPMENT, AND ALL OTHER SOURCES OF IGNITION UNTIL VAPORS ARE GONE. IN

CLOSED CONTAINERS, PRESSURE BUILDUP MAY OCCUR DUE TO HEAT EXPOSURE. DURING EMERGENCY CONDITIONS, OVEREX-POSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION. (SEE SECTION VI).

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. HOWEVER, WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP. FULL PROTECTIVE EQUIPMENT RECOMMENDED, INCLUDING SELF-CONTAINED BREATHING APPARATUS, TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS.

### SECTION V — HEALTH HAZARD DATA

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING
CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR
DEATH. INGESTION MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND/OR DIARRHEA. EYE CONTACT CAN
CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR REPEATED SKIN CONTACT WILL DRY
AND DEFAT THE SKIN, LEADING TO IRRITATION AND DERMATITUS. CRYSTALLINE SILICA DUST CAN CAUSE UPPER RESPIRATORY
IRRITATION AND IRRITATION TO EYES. PROLONGED OVER-EXPOSURE TO SILICA DUST BY INHALATION MAY CAUSE DELAYED LUNG
INJURY/DISEASE (SILICOSIS). ON THE BASIS OF INITIAL EXPERIMENTAL TESTS IN ANIMALS AND LIMITED EPIDEMIOLOGICAL
STUDIES IN HUMAN POPULATIONS, THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED THAT
THERE IS LIMITED EVIDENCE FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA TO HUMANS. <CHRONIC EFFECTS> REPEATED
OVEREXPOSURE TO SOLVENT VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD,
LIVER, AND/OR KIDNEY INJURY, HEARING LOSS. RATS EXPOSED TO TITANIUM DIOXIDE DUST AT 250 MG/M\* DEVELOPED LUNG
CANCER; HOWEVER, SUCH EXPOSURE LEVELS ARE NOT ATTAINABLE IN THE WORK PLACE. LONG TERM EXCESSIVE EXPOSURE TO
TALC DUST MAY CAUSE TALCOSIS, A PULMONARY FIBROSIS, WHICH IN TURN MAY LEAD TO SEVERE AND PERMANENT DAMAGE TO TALC DUST MAY CAUSE TALCOSIS, A PULMONARY FIBROSIS, WHICH IN TURN MAY LEAD TO SEVERE AND PERMANENT DAMAGE TO

PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION () - INGESTION

EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE IMMEDIATELY; CALL A PHYSICIAN. IF

BREATHING IS IRREGULAR OR STOPPED, START RESUSCITATION, ADMINISTER OXYGEN. IF INGESTED, DO NOT INDUCE VOMITING;

CALL A PHYSICIAN. IF SPLASHED INTO THE EYES, FLUSH EYES WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SUB-SIDES: CONSULT A PHYSICIAN AS MAY BE REQUIRED. IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WARM WATER.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING SKIN DISORDERS, CHRONIC RESPIRATORY DISEASES. 

### **SECTION VI — REACTIVITY DATA**

(X) - STABLE ()-UNSTABLE

HAZARDOUS POLYMERIZATION () - MAY OCCUR (X) - WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY
INCLUDE ONE OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, ACROLEIN, HYDROGEN CHLORIDE, OXIDES OF NITROGEN.

CONDITIONS TO AVOID: HIGH TEMPERATURES OR DIRECT HEATING.

INCOMPATIBILITY (MATERIALS TO AVOID): OXYGEN AND STRONG OXIDANTS, STRONG ACIDS, STRONG BASES, AND AMINES. WILL DISSOLVE OR SOFTEN SOME PLASTICS AND RUBBER.

### SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS), VENTILATE AREA, CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. REFER TO OTHER HAZARD CAUTIONS CONTAINED ON THIS SHEET BEFORE ATTEMPTING CLEAN-UP. WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

### SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/ME-

RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICADMECHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN
CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.
VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY
AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE
ADEQUATE TO PREVENT THE TLV'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.
PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.
EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.
OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON AND CLOTHING.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY.

### **SECTION IX — SPECIAL PRECAUTIONS**

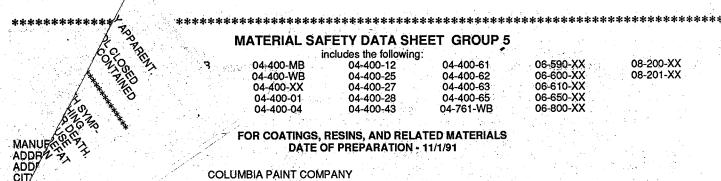
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME. NO SMOKING OR OPEN LIGHTS.

THER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. STORE IN SEALED CONTAINERS AWAY FROM SPACE HEATING EQUIPMENT.

### SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CAS#	CHEMICAL NAME	PERCENT BY WEIGHT	
1330-20-7	XYLENE (MIXED ISOMERS)	<1.0 - 44.98%	
100-41-4	ETHYL BENZENE	<1.0 - 9.21%	
	ZINC COMPOUNDS	, <1.0 - 7.16%	•
108-88-3	TOLUENE	<1.0 - 13.60%	
	GLYCOL ETHERS	<1.0 - 1.43%	



includes the following: 04-400-12 06-590-XX 06-600-XX 04-400-61 04-400-MB 04-400-62 04-400-25 04-400-WB 06-610-XX 04-400-XX 04-400-27 04-400-63 04-400-01 04-400-28 04-400-65 06-650-XX 04-400-04 04-400-43 04-761-WB 06-800-XX

FOR COATINGS, RESINS, AND RELATED MATERIALS **DATE OF PREPARATION - 11/1/91** 

**COLUMBIA PAINT COMPANY** NORTH 112 HAVEN STREET P. O. BOX 4569 SPOKANE, WA 99202

TELEPHONE NO. ION TELEPHONE NO. 

DAY: 509-535-9741 DAY: 509-535-9741

NIGHT: 1-800-424-9300 NIGHT: 1-800-424-9300 08-200-XX

08-201-XX

### SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE PRODUCT CLASS: SYNTHETIC ALKYD RESIN COATING TRADE NAME: SEE TABLE OF CONTENTS

**HMIS INFORMATION\*\*** 

HEALTH - 2 **REACTIVITY - 1**  FLAMMABILITY - 2

PERSONAL PROTECTIVE EQUIPMENT - H 

### SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT		% BY	TLV - (1			VAPOR PRESS
MATERIAL DESCRIPTION	CAS#	WEIGHT	РРМ	MG/M3	LEL	MMHG DEG F.
MAGNESIUM SILICATE (TALC)	*14807-966	<1.0-26.42*	Not Est*	2.00*	Unk.*	Unknown
SILICEOUS MUSCOVITE MICA -suspected carcinogen	*1318-94-1	<1.0-4.85*	Not Est*	3.00*	Unk.*	Unknown
MINERAL SPIRITS	*8052-41-3	<1.0-77.06*	100.00*	Not Est*	1.0*	2.00 @ 68.0
HIGH FLASH ALIPHATIC HYDROCARBON	*64742-88-7 *	<1.0-31.26* *	100.00*	Not Est*	1.0*	1.00 @ 68.0
XYLENE (MIXED ISOMERS)	*1330-20-7	<1.0-1.17*	100.00*	434.00*	1.0*	6.00 @ 68.0
HIGH-BOILING AROMATIC HYDROCARBON	*64742-95-6 *	<1.0-4.01* *	80.00*	Not Est*	1.0*	5.00 @ 3/4 1 100.0
2-ETHOXYETHANOL (EGEE)	*110-80-5	<.1013*	5.00*	18.00*	Unk.*	Unknown
CARBON BLACK	*1333864	0-3.24*	Not Est*	3.50*	Unk.*	Unknown
TITANIUM DIOXIDE	*13463-67-7	0.00-28.82*	Not Est*	10.00	Unk.*	Unknown

THIS PRODUCT CONTAINS HAZARDOUS COMPONENTS WHICH MAY BECOME AIRBORNE AND RESULT IN EXPOSURE WHEN REMOVED BY ABRASIVE BLASTING, SANDING, OR GRINDING. VENTILATE AND AVOID BREATHING DUSTS. 

### SECTION III — PHYSICAL DATA

**BOILING RANGE** VAPOR PRESSURE: VAPOR DENSITY:

399.0 - 475.0 DF LOW 148.0 - 305.0 DF HIGH

SEE SECTION II

**HEAVIER THAN AIR** 

EVAPORATION RATE: WEIGHT PER GALLON: SLOWER THAN BUTYL ACETATE 6.9 - 12.3

% VOLATILE BY VOLUME: 32.9 - 80.6 % VOLATILE BY WEIGHT: 17.8 - 77.6

### SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DOT - COMBUSTIBLE LIQUID OSHA-CLASS II FLAMMABILITY CLASSIFICATION LOWER EXPLOSION LEVEL (LEL) LOWEST FLASHPOINT T.C.C. 104.0 - 136.0 DF

1.0% ALCOHOL FOAM WATER FOG (X) FOAM (X) CO2 **EXTINGUISHING MEDIA:** 

(A) FOAIN (A) FOAIN (A) FOAIN (A) FOAIN (A) FOAIN (A) OCCUPATION (A) OTHER ( ATTENTION. (SEE SECTION VI)

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. HOWEVER, WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP. FULL PROTECTIVE EQUIPMENT RECOMMENDED, INCLUDING SELF-CONTAINED BREATHING APPARATUS, TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS.

SECTION V — HEALTH HAZARD DATA

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR ING CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR DEATH. INGESTION MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND/OR DIARRHEA. EYE CONTACT CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR REPEATED SKIN CONTACT WILL DRY AND CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BERMATITUS. CRYSTALLINE SILICA DUST BY INHALATION MAY CAUSE DELAYED LUNG IRRITATION AND IRRITATION TO EYES. PROLONGED OVER-EXPOSURE TO SILICA DUST BY INHALATION MAY CAUSE DELAYED LUNG INJURY/DISEASE (SILICOSIS). ON THE BASIS OF INITIAL EXPERIMENTAL TESTS IN ANIMALS AND LIMITED EPIDEMIOLOGICAL STUDIES IN HUMAN POPULATIONS, THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED THAT THERE IS IN HUMAN POPULATIONS, THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED THAT THERE IS LIMITED EVIDENCE FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA TO HUMANS. <CHRONIC EFFECTS> REPEATED OVEREX-LIMITED EVIDENCE FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA TO HUMANS. <CHRONIC EFFECTS> REPEATED OVEREX-POSURE TO SOLVENT VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJURY, HEARING LOSS. RATS EXPOSED TO TITANIUM DIOXIDE DUST AT 250 MG/M² DEVELOPED LUNG CANCER; HOWEVER, SUCH EXPOSURE LEVELS ARE NOT ATTAINABLE IN THE WORK PLACE. LONG TERM EXCESSIVE EXPOSURE TO TALC DUST MAY CAUSE TALCOSIS, A PULMONARY FIBROSIS, WHICH IN TURN MAY LEAD TO SEVERE AND PERMANENT DAMAGE TO THE LUNG.

PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION () - INGESTION
PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION () - INGESTION
EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE IMMEDIATELY; CALL A PHYSICIAN.
IF BREATHING IS IRREGULAR OR STOPPED, STARTRESUSCITATION, ADMINISTER OXYGEN. IF INGESTED, DO NOT INDUCE VOMITING; CALL A PHYSICIAN. IF SPLASHED INTO THE EYES, FLUSH EYES WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION
SUBSIDES; CONSULT A PHYSICIAN AS MAY BE REQUIRED. IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOTHING
AND WASHINGTH SOAD AND WATED AND WASH SKIN WITH SOAP AND WARM WATER

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING SKIN DISORDERS, CHRONIC RESPIRATORY DISEASES. INDIVIDUALS WITH PULMONARY AND/OR RESPIRATORY DISEASE INCLUDING, BUT NOT LIMITED TO, ASTHMA AND BRONCHITIS

SHOULD NOT BE EXPOSED TO SILICA DUSTS. 

### SECTION VI — REACTIVITY DATA

STABILITY: ()-UNSTABLE (X)-STABLE
HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY
HAZARDOUS OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, ACROLEIN, HYDROGEN CHLORIDE, OXIDES

CONDITIONS TO AVOID: HIGH TEMPERATURES OR DIRECT HEATING.
INCOMPATIBILITY (MATERIALS TO AVOID): OXYGEN: AND STRONG OXIDANTS, STRONG ACIDS, STRONG BASES, AND AMINES. WILL DISSOLVE OR SOFTEN SOME PLASTICS AND RUBBER. 

### SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS), VENTILATE AREA, CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. REFER TO OTHER HAZARD CAUTIONS CONTAINED ON THIS SHEET BEFORE ATTEMPTING CLEAN-UP.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE

CLOSED CONTAINERS.

### SECTION VIII — SAFE HANDLING AND USE INFORMATION

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/ME-CHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.

VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE ADEQUATE TO PREVENT THE TLV'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON AND CLOTHING.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY.

### SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME. NO SMOKING OR OPEN LIGHTS

HER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. STORE IN SEALED CONTAINERS AWAY FROM SPACE HEATING EQUIPMENT.

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### SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

PERCENT BY WEIGHT CHEMICAL NAME CAS#

1330-20-7

XYLENE (MIXED ISOMERS)

<1.0 - 1.24%

### 

### MATERIAL SAFETY DATA SHEET GROUP 6

00-015-PP

00-070-MB 00-072-MB

includes the following: 03-700-WB

04-400-21

04-400-33 08-300-WB 08-400-WB

### FOR COATINGS, RESINS, AND RELATED MATERIALS **DATE OF PREPARATION -11/1/91**

MANUFACTURER'S NAME:

COLUMBIA PAINT COMPANY NORTH 112 HAVEN STREET

ADDRESS: ADDRESS:

P. O. BOX 4569

CITY, STATE:

SPOKANE, WA 99202

EMERGENCY TELEPHONE NO.

DAY: 509-535-9741 DAY: 509-535-9741

NIGHT: 1-800-424-9300

INFORMATION TELEPHONE NO. 

NIGHT: 1-800-424-9300

SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE PRODUCT CLASS: SYNTHETIC ALKYD RESIN COATING TRADE NAME: SEE TABLE OF CONTENTS

**HMIS INFORMATION\*\*** 

FLAMMABILITY - 2

HEALTH - 2 REACTIVITY - 1

PERSONAL PROTECTIVE EQUIPMENT - J

### SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT MATERIAL DESCRIPTION	CAS#	% BY WEIGHT	TLV - PPM	(TWA) MG/M3	LEL	VAPOR PRESS MMHG DEG F.
MINERAL SPIRITS	*8052-41-3	<1.0-45.64*	100.00*	Not Est*	1.0*	2.00 @ 68.0
MAGNESIUM SILICATE (TALC)	*14807-96-6	<1.0-24.84*	Not Est*	2.00*	Unk,*	Unknown
CRYSTALLINE SILICA -suspected carcinogen	*14808-60-7 *	<.10-19.52*	Not Est*	.10*	Unk.*	Unknown
SILICEOUS MUSCOVITE MICA -suspected carcinogen	*1318-94-1	<1.0-2.5	Not Est*	3.00*	Unk.*	Unknown
HIGH-BOILING AROMATIC HYDROCARBON	*64742-95-6 *	<1.0-1.70*	- 80.00*	Not Est*	1.0*	5.00 @ 100.0
HIGH FLASH ALIPHATIC HYDROCARBON	*64742-88-7 *	<1.0-16.80*	100.00*	Not Est*	1.0*	1.00 @ 68.0
XYLENE (MIXED ISOMERS)	*1330-20-7	<1.0-1.07*	100.00*	434.00*	1.0*	6.00 @ 68.0
CARBON BLACK	*1333864	0-2.07*	Not Est*	3.50*	Unk.*	Unknown
TITANIUM DIOXIDE	*13463-67-7	0.00-14.48*	Not Est*	10.00	Unk.*	Unknown

THIS PRODUCT CONTAINS HAZARDOUS COMPONENTS WHICH MAY BECOME AIRBORNE AND RESULT IN EXPOSURE WHEN REMOVED BY ABRASIVE BLASTING, SANDING, OR GRINDING. VENTILATE AND AVOID BREATHING DUSTS.

### SECTION III — PHYSICAL DATA

148.0 - 305.0 DF

**BOILING RANGE** 

HIGH 399.0 - 410.0 DF LOW

VAPOR PRESSURE: VAPOR DENSITY:

SEE SECTION II HEAVIER THAN AIR

EVAPORATION RATE: WEIGHT PER GALLON:

SLOWER THAN BUTYL ACETATE

% VOLATILE BY VOLUME: % VOLATILE BY WEIGHT: 8.4 - 13.0 42.5 - 58.6 22.8 - 46.5

### SECTION IV — FIRE AND EXPLOSION HAZARD DATA OSHA-CLASS II DOT - COMBUSTIBLE LIQUID

FLAMMABILITY CLASSIFICATION

FLAMMABILITY CLASSIFICATION OSHA-CLASS II DOT - COMBUSTIBLE LIQUID
LOWEST FLASHPOINT T.C.C. 106.0 DF LOWER EXPLOSION LEVEL (LEL) 1.0%
EXTINGUISHING MEDIA: (X) FOAM () ALCOHOL FOAM (X) CO2

(X) DRY CHEMICAL () WATER FOG () OTHER
UNUSUAL FIRE AND EXPLOSION HAZARDS: ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT, AND OPEN FLAME. IN CLOSED CONTAINERS, PRESSURE BUILDUP MAY OCCUR DUE TO HEAT EXPOSURE. DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL

ATTENTION. (SEE SECTION VI).

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. HOWEVER, WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP. FULL PROTECTIVE EQUIPMENT RECOMMENDED, INCLUDING SELF-CONTAINED BREATHING APPARATUS, TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS.

### SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMP-EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR DEATH. INGESTION MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND/OR DIARRHEA. EYE CONTACT CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR REPEATED SKIN CONTACT WILL DRY AND DEFAT THE SKIN, LEADING TO IRRITATION AND DERMATITUS. <CHRONIC EFFECTS> REPEATED OVEREXPOSURE TO SOLVENT VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJURY, HEARING LOSS. CRYSTALLINE SILICA DUST CAN CAUSE UPPER RESPIRATORY IRRITATION AND IRRITATION TO EYES. PROLONGED OVER-EXPOSURE TO SILICA DUST BY INHALATION MAY CAUSE DELAYED LUNG INJURY/DISEASE (SILICOSIS). ON THE BASIS OF INITIAL EXPERIMENTAL TESTS IN ANIMALS AND LIMITED EPIDEMIOLOGICAL STUDIES IN HUMAN POPULATIONS, THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED THAT THERE IS LIMITED EVIDENCE FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA TO HUMANS. RATS EXPOSED TO TITANIUM DIOXIDE DUST AT 250 MG/MP DEVELOPED LUNG CANCER; HOWEVER, SUCH EXPOSURE LEVELS ARE NOT ATTAINABLE IN THE WORK PLACE. LONG TERM EXCESSIVE EXPOSURES TO TALC DUST MAY CAUSE TALCOSIS, A PULMONARY FIBROSIS, WHICH IN TURN MAY LEAD TO SEVERE AND PERMANENT DAMAGE TO THE LUNG. PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION () - INGESTION EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE MMEDIATELY; CALL A PHYSICIAN. IF BREATHING IS IRREGULAR OR STOPPED, STARTRESUSCITATION, ADMINISTER OXYGEN. IF INGESTED, DO NOT INDUCE VOMITING; CALL A PHYSICIAN AS MAY BE REQUIRED. IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOTHING

SUBSIDES; CONSULT A PHYSICIAN AS MAY BE REQUIRED. IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOTHING

AND WASH SKIN WITH SOAP AND WARM WATER.
MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING SKIN DISORDERS, CHRONIC RESPIRATORY DISEASES. INDIVIDUALS WITH PULMONARY AND/OR RESPIRATORY DISEASE INCLUDING, BUT NOT LIMITED TO, ASTHMA AND BRONCHITIS SHOULD NOT BE EXPOSED TO SILICA DUSTS.

### SECTION VI — REACTIVITY DATA

STABILITY: ()-UNSTABLE (X)-STABLE
HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY INCLUDE ONE OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, ACROLEIN, HYDROGEN CHLORIDE, OXIDES

CONDITIONS TO AVOID: HIGH TEMPERATURES OR DIRECT HEATING.
INCOMPATIBILITY (MATERIALS TO AVOID): OXYGEN AND STRONG OXIDANTS, STRONG ACIDS, STRONG BASES, AND AMINES. WILL DISSOLVE OR SOFTEN SOME PLASTICS AND RUBBER.

### SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS), VENTILATE AREA, CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. REFER TO OTHER HAZARD CAUTIONS CONTAINED ON THIS SHEET BEFORE ATTEMPTING CLEAN-UP. WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

### SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/ME-CHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.

VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE ADEQUATE TO PREVENT THE TLV'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.
OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON AND CLOTHING.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY.

### SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME. NO SMOKING OR **OPEN LIGHTS** 

OTHER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. STORE IN SEALED CONTAINERS AWAY FROM SPACE HEATING EQUIPMENT.

### SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

> PERCENT BY CHEMICAL NAME WEIGHT CAS#

XYLENE (MIXED ISOMERS) 0 - 1.07% 1330-20-7

### 

### MATERIAL SAFETY DATA SHEET GROUP 7

04-400-47

includes the following: 88-529-CO

FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME:

\*

COLUMBIA PAINT COMPANY NORTH 112 HAVEN STREET

ADDRESS: ADDRESS: CITY, STATE:

P. O. BOX 4569 SPOKANE, WA 99202

EMERGENCY TELEPHONE NO.

DAY: 509-535-9741

NIGHT: 1-800-424-9300 NIGHT: 1-800-424-9300

DAY: 509-535-9741 INFORMATION TELEPHONE NO. \*\*\*\*\*\*\*\*\*\*\*\*\*\*

### SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE PRODUCT CLASS: SYNTHETIC ALKYD RESIN COATING TRADE NAME: SEE TABLE OF CONTENTS

HMIS INFORMATION\*\*

HEALTH - 2

FLAMMABILITY - 2

**REACTIVITY - 1** 

PERSONAL PROTECTIVE EQUIPMENT - J

### SECTION II — HAZARDOUS INGREDIENTS

——INGREDIENT—— MATERIAL DESCRIPTION	% BY CAS # WEIGHT	TLV - (TWA) PPM MG/M3	LEL	VAPOR PRESS MMHG DEG F.
MINERAL SPIRITS	*8052-41-3 17.66-47.61*	100.00* Not Est*	1.0*	2.00 @ 68.0
LEAD AS IN LEAD CHROMATE -suspected carcinogen	2.01-24.87*	Not Est* .05*	Unk.*	Unknown
CHROMIUM AS CR (VI) -known carcinogen	*7440-47-3 <.10-2.03	Not Est* .05*	Unk.*	Unknown
CRYSTALLINE SILICA -suspected carcinogen	*14464-46-1 <.10-1.91*	Not Est* .05*	Unk.↑	Unknown
TITANIUM DIOXIDE	*13463-67-7 0.00-14.48*	Not Est* 10.00	Unk.*	Unknown

THIS PRODUCT CONTAINS HAZARDOUS COMPONENTS WHICH MAY BECOME AIRBORNE AND RESULT IN EXPOSURE WHEN REMOVED ABRASIVE BLASTING, SANDING, OR GRINDING. VENTILATE AND AVOID BREATHING DUSTS.

### SECTION III — PHYSICAL DATA

BOILING RANGE: VAPOR PRESSURE:

399.0 DF SEE SECTION II

LOW 148.0 - 286.0 DF

VAPOR DENSITY:

**HEAVIER THAN AIR** 

**EVAPORATION RATE** 

WEIGHT PER GALLON:

SLOWER THAN BUTYL ACETATE 8.3 - 14.1

% VOLATILE BY VOLUME: % VOLATILE BY WEIGHT: \*\*\*\*\*\*\*\*\*\*\*\*\*\*

37.9 - 60.1 17.9 - 49.0

### SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION OSHA-CLASS II DOT - COMBUSTIBLE LIQUID
LOWEST FLASHPOINT T.C.C. 106.0 DF LOWER EXPLOSION LEVEL (LEL) 1.0%

EXTINGUISHING MEDIA: (X) FOAM () ALCOHOL FOAM (X) CO2

(X) DRY CHEMICAL () WATER FOG () OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT, AND OPEN FLAME. IN CLOSED CONTAINERS, PRESSURE BUILDUP MAY OCCUR DUE TO HEAT EXPOSURE. DURING EMERGENCY CONDITIONS, OVEREXPOSURE. DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN, MEDIC ATTENTION. (SEE SECTION VI)

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. HOWEVER, WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP. FULL PROTECTIVE EQUIPMENT RECOMMENDED, INCLUDING SELF-CONTAINED BREATHING APPARATUS, TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS.

### SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OF DEATH. INGESTION MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VÖMITING, AND/OR DIARRHEA. EYE CONTACT CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR REPEATED SKIN CONTACT WILL DRY A DEFAT THE SKIN, LEADING TO IRRITATION AND DERMATITUS. CRYSTALLINE SILIA DUST CAN CAUSE UPPER RESPIRATORY IRRITATION AND IRRITATION TO EYES. PROLONGED OVER-EXPOSURE TO SILICA DUST BY INHALATION MAY CAUSE DELAYED LUNG INJURY/DISEASE (SIILCOSIS). ON THE BASIS OF INITIAL EXPERIMENTAL TESTS IN ANIMALS AND LIMITED EPIDEMIOLOGICAL STUDII

IN HUMAN POPULATIONS, THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED THAT THERE IS LIMITED EVIDENCE FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA TO HUMANS. <CHRONIC EFFECTS> REPEATED OVEREX-POSURE TO SOLVENT VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJURY, HEARING LOSS. LEAD IS A CUMULATIVE POISON. CHRONIC OVEREXPOSURE TO LEAD VIA INHALATION OR INGESTION MAY RESULT IN SEVERE DAMAGE TO BLOOD-FORMING, CENTRAL NERVOUS, URINARY, AND REPRODUCTIVE SYSTEMS. LEAD CROSSES THE PLACENTAL BARRIER AND POSES RISKS TO DEVELOPING FETUSES. SYMPTOMS OF OVEREXPOSURE TO LEAD INCLUDE ANEMIA, ABDOMINAL DISCOMFORT, METALLIC TASTE, LOSS OF APPETITE, HEADACHE, INSOMNIA, MUSCLE PAIN AND WEAKNESS, FINE TREMORS, NUMBNESS, NERVOUS IRRITABILITY. LEAD CHROMATE IS A SUSPECTED HUMAN CARCINOGEN. RATS EXPOSED TO TITANIUM DIOXIDE DUST AT 250 MG/M³ DEVELOPED LUNG CANCER; HOWEVER, SUCH EXPOSURE LEVELS ARE NOT ATTAINABLE IN THE WORK PLACE. ATTAINABLE IN THE WORK PLACE

EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE IMMEDIATELY; CALL A PHYSICIAN. IF BREATHING IS IRREGULAR OR STOPPED, STARTRESUSCITATION, ADMINISTER OXYGEN. IF INGESTED, DO NOT INDUCE VOMIT-ING; CALL THE POISON CONTROL CENTER IMMEDIATELY. IF SPLASHED INTO THE EYES, FLUSH EYES WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SUBSIDES; CONSULT A PHYSICIAN AS MAY BE REQUIRED. IN CASE OF SKIN CONTACT, REMOVE

ANY CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WARM WATER.

PRIMARY ROUTES OF EXPOSURE: (X) - DERMAL (X) - INHALATION () - INGESTION

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING SKIN DISORDERS, CHRONIC RESPIRATORY DISEASES.

### SECTION VI — REACTIVITY DATA

STABILITY: ()-UNSTABLE (X)-STABLE HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY INCLUDE ONE OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, ACROLEIN, HYDROGEN CHLORIDE, OXIDES OF NITROGEN, LEAD AND CHROMIUM OXIDES.
CONDITIONS TO AVOID: HIGH TEMPERATURES OR DIRECT HEATING.

INCOMPATIBILITY (MATERIALS TO AVOID): OXYGEN AND STRONG OXIDANTS, STRONG ACIDS, STRONG BASES, AND AMINES. WILL DISSOLVE OR SOFTEN SOME PLASTICS AND RUBBER.

### SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS), VENTILATE AREA, CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. REFER TO OTHER HAZARD CAUTIONS CONTAINED ON THIS SHEET BEFORE ATTEMPTING CLEAN-UP.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE

CLOSED CONTAINERS.

### SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/ME-CHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.

VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE ADEQUATE TO PREVENT THE TLV'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON AND CLOTHING.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM, SMOKE IN SMOKING AREAS ONLY.

### SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME. NO SMOKING OR OPEN LIGHTS.

OTHER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. STORE IN SEALED CONTAINERS AWAY FROM SPACE HEATING EQUIPMENT. CONTAINS LEAD CHROMATE.

### SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CAS#	CHEMICAL NAME	PERCENT BY WEIGHT	
1330-20-7	XYLENE (MIXED ISOM	ERS) <1.0 - 1.09%	
7439-92-1	` LEAD	2.04 - 25.94%	
7440-47-3	CHROMIUM	.40 - 2.03%	

includes the following:

06-045-XX

11-892-XX

### FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME:

COLUMBIA PAINT COMPANY

ADDRESS: ADDRESS:

NORTH 112 HAVEN STREET P. O. BOX 4569

CITY, STATE:

SPOKANE, WA 99202

EMERGENCY TELEPHONE NO.

DAY: 509-535-9741 DAY: 509-535-9741

NIGHT: 1-800-424-9300

INFORMATION TELEPHONE NO.

NIGHT: 1-800-424-9300 

SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE PRODUCT CLASS: SOLUTION ACRYLIC RESIN COATING TRADE NAME: SEE TABLE OF CONTENTS

HMIS INFORMATION\*\*

HEALTH - 2

FLAMMABILITY - 2

**REACTIVITY - 1** 

PERSONAL PROTECTIVE EQUIPMENT - H \*\*\*\*\*\*\*\*\*

### SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT-MATERIAL DESCRIPTION

CAS#

% BY WEIGHT

MG/M3

315.0 DF

VAPOR **PRESS** MMHG

DEG F.

MINERAL SPIRITS

\*8052-41-3 >1.0-93.53\*

100.00\*

Not Est\*

1.0\*

LEI

2.00@

68.0

SECTION III — PHYSICAL DATA 399.0 DF LOW

BOILING RANGE:

VAPOR PRESSURE: SEE SECTION INC.

VAPOR DENSITY: . HEAVIER THAN AIR

EVAPORATION RATE: WEIGHT PER GALLON: % VOLATILE BY VOLUME: % VOLATILE BY WEIGHT:

....20 - 95.0 .20 - 93.5

HIGH .

SLOWER THAN BUTYL ACETATE 6.7 - 7.73

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION OSHA-CLASS II DOT - COMBUSTIBLE LIQUID
LOWEST FLASHPOINT T.C.C. 106.0 DF LOWER EXPLOSION LEVEL (LEL) 1.0%
EXTINGUISHING MEDIA: (X) FOAM () ALCOHOL FOAM (X) CO2

(X) DRY CHEMICAL () WATER FOG () OTHER
UNUSUAL FIRE AND EXPLOSION HAZARDS: ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT, AND OPEN FLAME. IN CLOSED CONTAINERS, PRESSURE BUILDUP MAY OCCUR DUE TO HEAT EXPOSURE. DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL

DECOMPOSITION PHODUCTS MAY CAUSE A REALTH HAZARD. STMF TONIO MAY THE SECTION VI).

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. HOWEVER, WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP. FULL PROTECTIVE EQUIPMENT RECOMMENDED, INCLUDING SELF-CONTAINED BREATHING APPARATUS, TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS.

### SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR DEATH. INGESTION MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND/OR DIARRHEA. EYE CONTACT CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR REPEATED SKIN CONTACT WILL DRY AND DEFAT THE SKIN, LEADING TO IRRITATION AND DERMATITUS. <CHRONIC EFFECTS> REPEATED OVEREXPOSURE TO SOLVENT VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJURY, HEADING LOSS HEARING LOSS.

HEARING LOSS.

PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION () - INGESTION

EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE IMMEDIATELY; CALL A PHYSICIAN. IF BREATHING IS IRREGULAR OR STOPPED, START RESUSCITATION, ADMINISTER OXYGEN. IF INGESTED, DO NOT INDUCE VOMITING; CALL A PHYSICIAN. IF SPLASHED INTO THE EYES, FLUSH EYES WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SUBSIDES; CONSULT A PHYSICIAN AS MAY BE REQUIRED. IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WARM WATER.

MEDICAL CONDITIONS PROME TO ACCREAVATION BY EXPOSURE. PRE-EXISTING SKIN DISORDERS, CHRONIC, RESPIRATORY DISEASES.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING SKIN DISORDERS, CHRONIC RESPIRATORY DISEASES.

### SECTION VI — REACTIVITY DATA STABILITY: ()-UNSTABLE (X)-STABLE HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY INCLUDE ONE OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, ACROLEIN, HYDROGEN CHLORIDE, OXIDES OF NITROGEN. CONDITIONS TO AVOID: HIGH TEMPERATURES OR DIRECT HEATING. INCOMPATIBILITY (MATERIALS TO AVOID): OXYGEN AND STRONG OXIDANTS, STRONG ACIDS, STRONG BASES, AND AMINES. WILL DISSOLVE OR SOFTEN SOME PLASTICS AND RUBBER. SECTION VII — SPILL OR LEAK PROCEDURES STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS), VENTILATE AREA, CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. REFER TO OTHER HAZARD CAUTIONS CONTAINED ON THIS SHEET BEFORE ATTEMPTING CLEAN-UP. WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE

### SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/ME-CHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.

CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATIONS OF HOODS.

VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE ADEQUATE TO PREVENT THE TLU'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON AND CLOTHING.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM: SMOKE IN SMOKING AREAS ONLY.

### SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME. NO SMOKING OR **OPEN LIGHTS** 

HER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. STORE IN SEALED CONTAINERS AWAY FROM SPACE HEATING EQUIPMENT.

### SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

> CAS# CHEMICAL NAME

PERCENT BY WEIGHT

NONE

**CLOSED CONTAINERS** 

includes the following: 06-062-XX

06-066XX

06-067-XX

### FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME:

COLUMBIA PAINT COMPANY NORTH 112 HAVEN STREET

ADDRESS: ADDRESS:

P. O. BOX 4569

CITY, STATE:

SPOKANE, WA 99202

EMERGENCY TELEPHONE NO. INFORMATION TELEPHONE NO.

DAY: 509-535-9741

NIGHT: 1-800-424-9300

NIGHT: 1-800-424-9300

DAY: 509-535-9741

SECTION I — PRODUCT IDENTIFICATION MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE

PRODUCT CLASS: SOLUTION ACRYLIC RESIN COATING TRADE NAME: SEE TABLE OF CONTENTS

HEALTH - 2 HMIS INFORMATION\*\*

FLAMMABILITY - 3

**REACTIVITY - 1** 

PERSONAL PROTECTIVE EQUIPMENT - H

230.0 DF

### SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT MATERIAL DESCRIPTION	CAS#	% BY WEIGHT	TLV PPM	- (TWA) MG/M3	ĻĒL	VAPOR PRESS MMHG	DEG F.
TOLUENE	*108883	6.54-23.77*	100.00*	375.00*	1.2*	22.00 @	68.0
XYLENE (MIXED ISOMERS)	*1330-20-7	43.53-72.14*	100.00*	434.00*	1.0*	6.00@	68.0
ETHYL BENZENE	*100414	8.92-14.78*	100.00*	435.00*	1.2*	10.00@	78.6

### SECTION III — PHYSICAL DATA LOW

**BOILING RANGE:** 

HIGH 284.0 DF

VAPOR PRESSURE:

SEE SECTION II

VAPOR DENSITY:

EVAPORATION RATE: WEIGHT PER GALLON: HEAVIER THAN AIR SLOWER THAN BUTYL ACETATE

\*

% VOLATILE BY VOLUME:

7.3 - 7.681.0 - 95.0

% VOLATILE BY WEIGHT: 

76.2 - 83.5

### SECTION IV — FIRE AND EXPLOSION HAZARD DATA

OSHA-CLASS IB DOT - FLAMMABLE LIQUID F LOWER EXPLOSION LEVEL (LEL) FLAMMABILITY CLASSIFICATION CLOWEST FLASHPOINT T.C.C. 40.0 DF

EXTINGUISHING MEDIA:

ALCOHOL FOAM

(X) FOAM (X) DRY CHEMICAL

(X) DRY CHEMICAL () WATER FOG () OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP AWAY FROM HEAT, SPARKS, AND FLAME. VAPORS MAY IGNITE EXPLOSIVELY.

VAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATERS, NON-EXPLOSION PROOF ELECTRICAL EQUIPMENT, AND ALL SOURCES OF IGNITION UNTIL VAPORS ARE GONE. IN CLOSED CONTAINERS, PRESSURE BUILDUP MAY OCCUR DUE TO HEAT EXPOSURE. DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION. (SEE SECTION VI)

ATTENTION. (SEE SECTION VI).

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. HOWEVER, WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP. FULL PROTECTIVE EQUIPMENT RECOMMENDED, INCLUDING SELF-CONTAINED BREATHING APPARATUS, TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS.

### SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATH-ING CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR DEATH. INGESTION MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND/OR DIARRHEA. EYE CONTACT CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR REPEATED SKIN CONTACT WILL DRY AND DEFAT THE SKIN, LEADING TO IRRITATION AND DERMATITUS. <CHRONIC EFFECTS> REPEATED OVEREXPOSURE TO SOLVENT VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJURY. **HEARING LOSS** 

PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION () - INGESTION
EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE IMMEDIATELY; CALL A PHYSICIAN. IF
BREATHING IS IRREGULAR OR STOPPED, START RESUSCITATION, ADMINISTER OXYGEN. IF INGESTED, DO NOT INDUCE VOMITING; CALL A PHYSICIAN. IF SPLASHED INTO THE EYES, FLUSH EYES WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SUB-SIDES; CONSULT A PHYSICIAN AS MAY BE REQUIRED. IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WARM WATER.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING SKIN DISORDERS, CHRONIC RESPIRATORY DISEASES.

### SECTION VI — REACTIVITY DATA

STABILITY: ()-UNSTABLE (X)-STABLE
HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY
INCLUDE ONE OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, ACROLEIN, HYDROGEN CHLORIDE, OXIDES

CONDITIONS TO AVOID: HIGH TEMPERATURES OR DIRECT HEATING.

INCOMPATIBILITY (MATERIALS TO AVOID): OXYGEN AND STRONG OXIDANTS, STRONG ACIDS, STRONG BASES, AND AMINES. WILL DISSOLVE OR SOFTEN SOME PLASTICS AND RUBBER.

### SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS), VENTILATE AREA, CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. REFER TO OTHER HAZARD CAUTIONS CONTAINED ON THIS SHEET BEFORE ATTEMPTING CLEAN-UP.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

### SECTION VIII — SAFE HANDLING AND USE INFORMATION

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/ME-CHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.

VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE ADEQUATE TO PREVENT THE TLV'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON AND CLOTHING.

OTHER PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY.

### SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME, NO SMOKING OR **OPEN LIGHTS** 

HER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. STORE IN SEALED CONTAINERS AWAY FROM SPACE HEATING EQUIPMENT.

### SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

111.		CAS#	CHEMICAL NAME	PERCENT BY WEIGHT		
	- :	108-88-3	TOLUENE	6.54 - 23.77%		
	1	1330-20-7	XYLENE (MIXED ISOMERS)	43.53 - 72.14%	 	
		100-41-4	ETHYL BENZENE	8.92 - 14.78%	 	

includes the following: 04-101-CC

### FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME:

**COLUMBIA PAINT COMPANY** NORTH 112 HAVEN STREET

ADDRESS: ADDRESS: CITY, STATE: P.O. BOX 4569 SPOKANE, WA 99202

EMERGENCY TELEPHONE NO.

DAY: 509-535-9741 DAY: 509-535-9741

NIGHT: 1-800-424-9300 NIGHT: 1-800-424-9300

VADOD

INFORMATION TELEPHONE NO.

### SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE MANUFACTURERS: SYNTHETIC ALKYD RESIN COATING PRODUCT CLASS: SYNTHETIC ALKYD RESIN COATING TRADE NAME: SEE TABLE OF CONTENTS HMS INFORMATION\*\*

HMS INFORMATION\*\*

HEALTH - 2

HMIS INFORMATION\*\*

**REACTIVITY - 1** 

olokskolokskolok

FLAMMABILITY - 3 PERSONAL PROTECTIVE EQUIPMENT - H

### SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	C	% BY AS # WEIGH		- (TWA) MG/M3	LEL	PRESS MMHG DEG F.
MINERAL SPIRITS	*805	2-41-3 45.71	100.00*	Not Est*	1.0*	2.00 @ 68.0
ALUMINUM PIGMENT	*742	9905 12.59	Not Est*	10.00*	Unk.*	Unknown

THIS PRODUCT CONTAINS HAZARDOUS COMPONENTS WHICH MAY BECOME AIRBORNE AND RESULT IN EXPOSURE WHEN REMOVED BY ABRASIVE BLASTING, SANDING, OR GRINDING. VENTILATE AND AVOID BREATHING DUSTS. 

### SECTION III — PHYSICAL DATA 277.0 DF

**BOILING RANGE:** 

399,0 DF LOW HIGH

VAPOR PRESSURE: VAPOR DENSITY:

SEE SECTION II HEAVIER THAN AIR

EVAPORATION RATE:

SLOWER THAN BUTYL ACETATE

WEIGHT PER GALLON: % VOLATILE BY VOLUME: % VOLATILE BY WEIGHT:

8.2 57.5

SECTION IV — FIRE AND EXPLOSION HAZARD DATA OSHA-CLASS II DOT - COMBUSTIBLE LIQUID

FLAMMABILITY CLASSIFICATION OSHA-CLASS II DOT - COMBUSTIBLE LIQUID
LOWEST FLASHPOINT T.C.C. 106.0 DF LOWER EXPLOSION LEVEL (LEL) 1.0%
EXTINGUISHING MEDIA: (X) FOAM ( ) ALCOHOL FOAM ( ) CO2
(X) DRY CHEMICAL ( ) WATER FOG ( ) OTHER
UNUSUAL FIRE AND EXPLOSION HAZARDS: ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT, AND OPEN FLAME. IN CLOSED
CONTAINERS, PRESSURE BUILDUP MAY OCCUR DUE TO HEAT EXPOSURE. DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO
DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL

DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELT APPARENT. OBTAIN MEDICAL ATTENTION. (SEE SECTION VI).

SPECIAL FIRE FIGHTING PROCEDURES: DO NOT USE A WATER STREAM. DO NOT USE HALOGENATED EXTINGUISHING AGENTS, LIKE HALON OR CARBON TETRACHLORIDE. CARE SHOULD BE USED WHEN APPLYING A CLASS B EXTINGUISHING AGENT AS SOME AGENTS CAN ACCELERATE A FIRE WHEN MOST OF THE SOLVENT HAS BEEN CONSUMED AND THE ALUMINUM FLAKE HAS STARTED TO BURN. ISOLATE THE FIRE BY RINGING IT WITH A DRY, INERT GRANULAR MATERIAL, OR CLASS D EXTINGUISHING AGENT, THEN TO BURN. ISOLATE THE FIRE BY RINGING IT WITH A DRY, INERT GRANULAR MATERIAL, OR CLASS D EXTINGUISHING AGENT, THEN LET IT ALONE. ALLOW THE MATERIAL TO BECOME COLD BEFORE DISPOSAL, SINCE METAL MAY CONTINUE TO BURN UNDER A LET IT ALONE. ALLOW THE MATERIAL TO BECOME COLD BEFORE DISPOSAL, SINCE METAL MAY CONTINUE TO BURN UNDER A LET IT ALONE. FULL PROTECTIVE EQUIPMENT IS RECOMMENDED, INCLUDING SELF-CONTAINED BREATHING APPARATU: TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS.

### SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING
CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR
DEATH. INGESTION MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND/OR DIARRHEA. EYE CONTACT CAN
CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR REPEATED SKIN CONTACT WILL DRY AN
DEFAT THE SKIN, LEADING TO IRRITATION AND DERMATITUS. <CHRONIC EFFECTS> REPEATED OVEREXPOSURE TO SOLVENT
VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJURY HEARING LOSS

HEAHING LOSS.

PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION () - INGESTION

PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION () - INGESTION

EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE IMMEDIATELY; CALL A PHYSICIAN. II

BREATHING IS IRREGULAR OR STOPPED, START RESUSCITATION, ADMINISTER OXYGEN. IF INGESTED, DO NOT INDUCE VOMITING

CALL A PHYSICIAN. IF SPLASHED INTO THE EYES, FLUSH EYES WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SUBSIDES; CONSULT A PHYSICIAN AS MAY BE REQUIRED. IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOTHING AND

WASH SKIN WITH SOAP AND WARM WATER.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EYPOSLIBE. PRE-EXISTING SKIN DISORDERS. CHRONIC RESPIRATORY DISEASES.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING SKIN DISORDERS, CHRONIC RESPIRATORY DISEASES

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SECTION VI DEACTIVITY DATA
STABILITY: ()-UNSTABLE (X)-STABLE HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY INCLUDE ONE OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, ACROLEIN, HYDROGEN CHLORIDE, OXIDES OF NITROGEN, ALUMINUM OXIDE AND/OR ALUMINUM NITRIDE. CONDITIONS TO AVOID: HIGH TEMPERATURES OR DIRECT HEATING. INCOMPATIBILITY (MATERIALS TO AVOID): OXYGEN AND STRONG OXIDANTS, STRONG ACIDS, STRONG BASES, AND AMINES. WILL DISSOLVE OR SOFTEN SOME PLASTICS AND RUBBER.
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SECTION VII — SPILL OR LEAK PROCEDURES  STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS), VENTILATE AREA, CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. REFER TO OTHER HAZARD CAUTIONS CONTAINED ON THIS SHEET BEFORE ATTEMPTING CLEAN-UP.  WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE.  CLOSED CONTAINERS.
*************************************
SECTION VIII — SAFE HANDLING AND USE INFORMATION  RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/ME. CHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.  VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE AD- EQUATE TO PREVENT THE TLV'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.  PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.  EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.  OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON AND CLOTHING.  HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY.
SECTION IX — SPECIAL PRECAUTIONS
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME. NO SMOKING OR
OTHER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. STORE IN SEALED CONTAINERS AWAY FROM SPACE HEATING EQUIPMENT.
SECTION X — REGULATORY INFORMATION  SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CAS#	CHEMICAL NAME	PERCENT BY: WEIGHT	
 1330-20-7 7429-90-5	XYLENE (MIXED ISOMERS) ALUMINUM (FUME OR DUST)	2.00% 14.52%	Amerikan dagan di kemilik di September di Kemilik di Kemilik di Kemilik di Kemilik di Kemilik di Kemilik di Ke Kemilik di Kemilik di K

includes the following: 88-086-02

### FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME: ADDRESS:

COLUMBIA PAINT COMPANY NORTH 112 HAVEN STREET

ADDRESS: CITY, STATE:

P. O. BOX 4569 SPOKANE, WA 99202

EMERGENCY TELEPHONE NO. INFORMATION TELEPHONE NO.

DAY: 509-535-9741 DAY: 509-535-9741 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* NIGHT: 1-800-424-9300 NIGHT: 1-800-424-9300 \*\*\*\*\*\*\*\*\*\*\*\*

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE PRODUCT CLASS: OIL/ALKYD RESIN COATING TRADE NAME: SEE TABLE OF CONTENTS

HMIS INFORMATION\*\*

HEALTH - 2 **REACTIVITY - 1**  FLAMMABILITY - 2

PERSONAL PROTECTIVE EQUIPMENT - J

### SECTION II — HAZARDOUS INGREDIENTS

	OLOTIOIT.				VAPOR	
INGREDIENT	% BY CAS # WEIGHT	TLV - PPM	(TWA) MG/M3	LEL	PRESS MMHG	DEG F.
	*8052-41-3 14.13*	100.00*	Not Est*	1.0*	2.00 @	68.0
SUICEOUS MUSCOVITE MICA	*1318-94-1 2.87*	Not Est*	3.00*	Unk.*	Unkno	wn
	*14807-96-6 9.20*	Not Est*	2.00*	Unk.*	Unkno	
LEAD AS IN LEAD TETRAOXIDE	39.63*	Not Est*	.05*	Unk.*	Unkno	
LEAD, AS IN LEAD DRIER	* .12*	Not Est*	.05*	Unk.*	Unkno	·
					・ヒマロハミ・ロント・ババロド	· N. P. P. N. I.

THIS PRODUCT CONTAINS HAZARDOUS COMPONENTS WHICH MAY BECOME AIRBORNE AND RESULT IN EXPOSURE WHEN REMOVED ABRASIVE BLASTING, SANDING, OR GRINDING. VENTILATE AND AVOID BREATHING DUSTS. 

### SECTION III — PHYSICAL DATA

BOILING RANGE:

399.0 DF HIGH SEE SECTION II

305.0 DF LOW

VAPOR PRESSURE: VAPOR DENSITY:

**HEAVIER THAN AIR** 

SLOWER THAN BUTYL ACETATE

EVAPORATION RATE: WEIGHT PER GALLON: % VOLATILE BY VOLUME: % VOLATILE BY WEIGHT:

\*\*\*\*\*\*\*

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### SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DOT - COMBUSTIBLE LIQUID OSHA-CLASS II FLAMMABILITY CLASSIFICATION

LOWER EXPLOSION LEVEL (LEL)
( ) ALCOHOL FOAM X) C

LOWEST FLASHPOINT T.C.C. 106.0 DF LOWER EXPLOSION LEVEL (LEL.) 1.0%

EXTINGUISHING MEDIA: (X) FOAM () ALCOHOL FOAM X) CO2

(X) DRY CHEMICAL () WATER FOG () OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT, AND OPEN FLAME. IN CLOSED

CONTAINERS, PRESSURE BUILDUP MAY OCCUR DUE TO HEAT EXPOSURE. DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. HOWEVER, WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP. FULL PROTECTIVE EQUIPMENT RECOMMENDED, INCLUDING SELF-CONTAINED BREATHING APPARATUS, TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS. ATTENTION. (SEE SECTION VI).

### SECTION V — HEALTH HAZARD DATA

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING
TOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING
CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR
DEATH. INGESTION MAY RESULTIN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND/OR DIARRHEA. EYE CONTACT CAN
CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR REPEATED SKIN CONTACT WILL DRY ANI
CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED ON THE SKIN, LEADING TO IRRITATION AND DERMATITUS. CRYSTALLINE SILICA DUST BY INHALATION MAY CAUSE DELAYED LUNG
IRRITATION AND IRRITATION TO EYES. PROLONGED OVER-EXPOSURE TO SILICA DUST BY INHALATION MAY CAUSE DELAYED LUNG
INJURY/DISEASE (SILICOSIS). ON THE BASIS OF INITIAL EXPERIMENTAL TESTS IN ANIMALS AND LIMITED EPIDEMIOLOGICAL STUDIES IN
HUMAN POPULATIONS, THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED THAT THERE IS LIMITED
HUMAN POPULATIONS, THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED THAT THERE IS LIMITED
EVIDENCE FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA TO HUMANS. <CHRONIC EFFECTS> REPEATED OVEREXPOSURE TO
EVIDENCE FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA TO HUMANS. THE INTERNATION OR INGESKIDNEY INJURY, HEARING LOSS. LEAD IS A CUMULATIVE POISON. CHRONIC OVEREXPOSURE TO LEAD VIA INHALATION OR INGES-

TION MAY RESULT IN SEVERE DAMAGE TO BLOOD-FORMING, CENTRAL NERVOUS, URINARY, AND REPRODUCTIVE SYSTEMS. LEAD CROSSES THE PLACENTAL BARRIER AND POSES RISKS TO DEVELOPING FETUSES. SYMPTOMS OF OVEREXPOSURE TO LEAD INCLUDE ANEMIA, ABDOMINAL DISCOMFORT, METALLIC TASTE, LOSS OF APPETITE, HEADACHE, INSOMNIA, MUSCLE PAIN AND WEAKNESS, FINE TREMORS, NUMBNESS, NERVOUS IRRITABILITY. LONG TERM EXCESSIVE EXPOSURES TO TALC DUST MAY CAUSE TALCOSIS, A PULMONARY FIBROSIS, WHICH IN TURN MAY LEAD TO SEVERE AND PERMANENT DAMAGE TO THE LUNG.

EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE IMMEDIATELY; CALL A PHYSICIAN. IF BREATHING IS IRREGULAR OR STOPPED, START RESUSCITATION, ADMINISTER OXYGEN. IF INGESTED, DO NOT INDUCE VOMITING; CALL THE POISON CONTROL CENTER IMMEDIATELY. IS SPLASHED INTO THE EYES, FLUSH EYES WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SUBSIDES; CONSULT A PHYSICIAN AS MAY BE REQUIRED. IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WARM WATER.

PRIMARY ROUTES OF EXPOSURE: (X) - DERMAL (X) - INHALATION () - INGESTION

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING SKIN DISORDERS, CHRONIC RESPIRATORY DISEASES INDIVIDUALS WITH PULMONARY AND/OR RESPIRATORY DISEASES INCLUDING, BUT NOT LIMITED TO, ASTHMA AND BRONCHITIS SHOULD NOT BE EXPOSED TO SILICA DUSTS.

### SECTION VI — REACTIVITY DATA

STABILITY: ()-UNSTABLE (X)-STABLE
HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY INCLUDE ONE OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, ACROLEIN, HYDROGEN CHLORIDE, OXIDES OF NITROGEN, LEAD OXIDE(S)

CONDITIONS TO AVOID: HIGH TEMPERATURES OR DIRECT HEATING.
INCOMPATIBILITY (MATERIALS TO AVOID): OXYGEN AND STRONG OXIDANTS, STRONG ACIDS, STRONG BASES, AND AMINES. WILL DISSOLVE OR SOFTEN SOME PLASTICS AND RUBBER.

### SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS), VENTILATE AREA, CONTAIN AND REMOVE WITH INERT ABSORBENT AND NONSPARKING TOOLS. REFER TO OTHER HAZARD CAUTIONS CONTAINED ON THIS SHEET BEFORE ATTEMPTING CLEAN-UP.
WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

### SECTION VIII — SAFE HANDLING AND USE INFORMATION

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/ME-CHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.

VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE ADEQUATE TO PREVENT THE TLV'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON AND CLOTHING.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY.

### SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME. NO SMOKING OR

OTHER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. STORE IN SEALED CONTAINERS AWAY FROM SPACE HEATING EQUIPMENT., CONTAINS LEAD

### SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT. TO-KNOW ACT OF 1986 AND

CAS#

CHEMICAL NAME

PERCENT BY WEIGHT

LEAD COMPOUNDS

43.70%

includes the following: 88-641-02

### FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME:

COLUMBIA PAINT COMPANY NORTH 112 HAVEN STREET

ADDRESS:

ADDRESS: CITY, STATE: P. O. BOX 4569 SPOKANE, WA 99202

NIGHT: 1-800-424-9300

DAY: 509-535-9741 DAY: 509-535-9741 NIGHT: 1-800-424-9300 ||VII O | VII | VI

### SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE PRODUCT CLASS: ZINC DUST ALKYD RESIN COATING
TRADE NAME: SEE TABLE OF CONTENTS

HMIS INFORMATION\*\*

HEALTH - 2 REACTIVITY - 1 FLAMMABILITY - 2

PERSONAL PROTECTIVE EQUIPMENT - J

### SECTION II — HAZARDOUS INGREDIENTS

***	SECTIO	ON II — HAZ	ZARDOUS	NGREDIEN	3	VAPOR
		% BY	TLV - PPM	(TWA) MG/M3	LEL	PRESS MMHG DEG F.
MATERIAL DESCRIPTION	CAS #	WEIGHT	100.00*	Not Est*	1.0*	2.00 @ 68.0
MINERAL SPIRITS	*8052-41-3	20.26*		15.00*	Unk.*	Unknown
ZINC DUST ****************	•7440666	50.82*	******	*****	*****	***********
*******	******	**************************************	- PHYSIC	AL DATA		

### SECTION III — PHYSICAL DATA 148.0 DF LOW

BOILING RANGE: VAPOR PRESSURE: VAPOR DENSITY: EVAPORATION RATE: HIGH SEE SECTION II

HEAVIER THAN AIR SLOWER THAN BUTYL ACETATE

399.0 DF

WEIGHT PER GALLON: % VOLATILE BY VOLUME: . 16.5 51.2 20.6 % VOLATILE BY WEIGHT:

### \*\*\*\*\*\*\*\*\* SECTION IV — FIRE AND EXPLOSION HAZARD DATA OSHA-CLASS II DOT - COMBUSTIBLE LIQUID

LOWEST FLASHPOINT T.C.C. 106.0 DF LOWER EXPLOSION LEVEL (LEL) 1.0%

EXTINGUISHING MEDIA: () FOAM () ALCOHOL FOAM () CO2

EXTINGUISHING MEDIA: () FOAM () WATER FOG (X) DRY SAND

UNUSUAL FIRE AND EXPLOSION HAZARDS: ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT, AND OPEN FLAME. IN CLOSED CONTAINERS, PRESSURE BUILDUP MAY OCCUR DUE TO HEAT EXPOSURE: HYDROGEN, A FLAMMABLE GAS WITH AN LEL OF 3.9%, CONTAINERS, PRESSURE BUILDUP MAY OCCUR DUE TO HEAT EXPOSURE: HYDROGEN, A FLAMMABLE GAS WITH AN LEL OF 3.9%, CONTAINERS TINC DUST IS IN CONTACT WITH MOISTURE, ALKALIS, OR ACIDS. ZINC DUST MAY EXPLOSION. DURING EVOLVES WHEN ZINC DUST IS IN CONTACT WITH MOISTURE, ALKALIS, OR ACIDS. ZINC DUST MAY EXPLOSION. DURING EVOLVES WHEN ZINC DUST IS IN CONTACT WITH MOISTURE, ALKALIS, OR ACIDS. ZINC DUST MAY EXPLOSION. DURING EVOLVES WHEN ZINC DUST IS IN CONTACT WITH MOISTURE, ALKALIS, OR ACIDS. ZINC DUST MAY EXPLOSION. DURING EVOLVES WHEN ZINC DUST IS IN CONTACT WITH MOISTURE, ALKALIS, OR ACIDS. ZINC DUST MAY EXPLOSION. DURING EVOLVES WHEN ZINC DUST IN CONTAINED AND ALSO MAY BE IGNITED BY NAKED LIGHTS, CAUSING EXPLOSION. DURING EVOLVES WHEN ZINC DUST MAY EXPLOSION. DURING EVOLVES WHEN ZINC DUST MAY EXPLOSION. DUST MAY EXPLOSION. DURING EVOLVES WHEN ZINC DUST MAY EXPLOSION. DUST MAY EXPLOSION. DUST MAY EXPLOSION. DUST MAY EXPLOSION. DURING EVOLVES WHEN ZINC DUST MAY EXPLOSION. DUST MAY EXPL

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING
TOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING
CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR
CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR
CONCENTRATED SOLVENT VAPOR DIABREM. SHE OF ZINC DUST, PARTICUCAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR REPEATED SKIN. CONTACT WILL DRY A
DEFAT THE SKIN, LEADING TO IRRITATION AND DERMATITUS. INHALATION OF EXCESSIVE QUANTITIES OF ZINC DUST, PARTICUCAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR REPEATED SKIN. COUNTITIES OF ZINC DUST, PARTICUCAUSE SEVERE IRRITATION, REDNESS, TEARING, AND DERMATITUS. INHALATION OF EXCESSIVE QUANTITIES OF ZINC DUST, PARTICUCAUSE SEVERE IRRITATION, REDNESS, TEARING, AND DEFMATITUS. INHALATION OF EXCESSIVE QUANTITIES OF ZINC DUST, PARTICUCAUSE SEVERE IRRITATION SINCH FERSON. SAND THE TORSON OF ZINC DUST, PARTICUCAUSE SEVERE IRRITATION SINCH FERSON. SAND THE SEVER. SYMPTOMS INCLUDE HEADACHE,
WASH SKIN WITH SOLD AND WARM WATER.

PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION () - INGESTION

PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION () - INGESTION

PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION () - INGESTION

PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION () - INGESTION

WASH SKIN WITH SOAP AND WARM WATER.

PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION ( ) - INGESTION

PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION ( ) - INGESTION

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING SKIN DISORDERS, CHRONIC RESPIRATORY DISEASE

### SECTION VI — REACTIVITY DATA

(X) - STABLE

STABILITY: ()-UNSTABLE (X)-STABLE
HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY
INCLUDE ONE OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, ACROLEIN, HYDROGEN CHLORIDE, OXIDES

OF NITROGEN, ZINC OXIDE. CONDITIONS TO AVOID: HIGH TEMPERATURES OR DIRECT HEATING

INCOMPATIBILITY (MATERIALS TO AVOID): OXYGEN AND STRONG OXIDANTS, STRONG ACIDS, STRONG BASES, AND AMINES. WILL DISSOLVE OR SOFTEN SOME PLASTICS AND RUBBER.

### SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS), VENTILATE AREA, CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. AVOID THE FORMATION OF ZINC DUST CLOUDS. REFER TO OTHER HAZARD CAUTIONS CONTAINED ON THIS SHEET BEFORE ATTEMPTING CLEAN-UP

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE

CLOSED CONTAINERS.

### SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/ME-CHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.

VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE ADEQUATE TO PREVENT THE TLV'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION: USE SAFETY FYEWEAR WITH SPI ASH GUARDS OR SIDE SHIFLDS

EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS. OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON AND CLOTHING.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY.

### **SECTION IX — SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME. NO SMOKING OR OPEN LIGHTS. STORE IN DRY CONTAINERS AWAY FROM MOISTURE, ACIDS, ALKALIS, AND OXIDIZING AGENTS. OTHER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR

REPEATED BREATHING OF VAPORS

### SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CAS#

**CHEMICAL NAME** 

PERCENT BY WEIGHT

7440-66-6

ZINC COMPOUNDS ZINC (FUME OR DUST)

48.79%

### 

MATERIAL SAFETY DATA SHEET GROUP 13

includes the following: 02-711-10

### FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME: ADDRESS:

**COLUMBIA PAINT COMPANY** NORTH 112 HAVEN STREET

ADDRESS:

CITY, STATE

P. O. BOX 4569 SPOKANE, WA 99202

EMERGENCY TELEPHONE NO.

DAY: 509-535-9741 DAY: 509-535-9741

NIGHT: 1-800-424-9300 NIGHT: 1-800-424-9300

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SECTION I — PRODUCT IDENTIFICATION MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE

PRODUCT CLASS: VINYL-ACRYLIC LATEX RESIN COATING
TRADE NAME: SEE TABLE OF CONTENTS
HMIS INFORMATION\*\* HEALTH - 1 FLA

**REACTIVITY - 1** 

FLAMMABILITY - 2

PERSONAL PROTECTIVE EQUIPMENT - B

### SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	% BY WEIGHT	VAPOR TLV - (TWA) PRESS PPM MG/M3 LEL MMHG DEG F.
CRYSTALLINE SILICA -suspected carcinogen	*14808-60-7	12.94*	Not Est* .10* Unk.* Unknown
MAGNESIUM SILICATE (TALC)	*14807-96-6	6.47*	Not Est* 2.00* Unk.* Unknown
ETHANOL	*64175	4.12*	1000.00* 1900.00* 3.3* 40.00@ 68.0
TITANIUM DIOXIDE	*13463-67-7	6.47*	Not Est.* 10.00* Unk.* Unknown

THIS PRODUCT CONTAINS HAZARDOUS COMPONENTS WHICH MAY BECOME AIRBORNE AND RESULT IN EXPOSURE WHEN REMOVED BY ABRASIVE BLASTING, SANDING, OR GRINDING. VENTILATE AND AVOID BREATHING DUSTS. \*\*\*\*\*\*\*\*\*\*\*\*\*\*

### SECTION III — PHYSICAL DATA

**BOILING RANGE:** 

HIGH 477.0 DF LOW

VAPOR PRESSURE: VAPOR DENSITY:

SEE SECTION II LIGHTER THAN AIR SLOWER THAN BUTYL ACETATE

**EVAPORATION RATE** WEIGHT PER GALLON: % VOLATILE BY VOLUME:

12.4 59.5 39.0

% VOLATILE BY WEIGHT: APPEARANCE - ODOR:

WHITE LIQUID

**DILUTABLE IN WATER** PH - SOLUBILITY:

### SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION LOWEST FLASHPOINT T.C.C. 150.0 DF

OSHA-CLASS III-A DOT - COMBUSTIBLE LIQUID LOWER EXPLOSION LEVEL (LEL)

3.3%

FROM HAZARDOUS COMBUSTION PRODUCTS.

### SECTION V — HEALTH HAZARD DATA

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: EXCESS INHALATION OF VOLATILIZED AMMONIA MAY PRODUCE HEADACHE, NAUSEA, IRRITATION TO RESPIRATORY TRACT. SKIN CONTACT MAY PRODUCE IRRITATION DUE TO SLIGHT ALKALINITY. PRESENCE OF VOLATILIZED AMMONIA COULD IRRITATE EYES. CRYSTALLINE SILICA DUST CAN CAUSE UPPER RESPIRATORY IRRITATION AND IRRITATION TO EYES. PROLONGED OVEREXPOSURE TO SILICA DUST BY INHALATION MAY CAUSE DELAYED LUNG INJURY/DISEASE (SILICOSIS). OF THE BASIS OF INITIAL EXPERIMENTAL TESTS IN ANIMALS AND LIMITED EPIDEMIOLOGICAL STUDIES IN HUMAN POPULATIONS, THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED THAT THERE IS LIMITED EVIDENCE FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA TO HUMANS. RATS EXPOSED TO TITANIUM DIOXIDE DUST AT 250 MG/M\* DEVELOPED LUNG CANCER; HOWEVER, SUCH EXPOSURES LEVELS ARE NOT ATTAINABLE IN THE WORK PLACE. LONG TERM EXCESSIVE EXPOSURES TO TALC DUST MAY CAUSE TALCOSIS, A PULMONARY FIBROSIS, WHICH IN TURN MAY LEAD TO SEVERE AND PERMANENT DAMAGE TO THE LING.

EXPOSURES TO TALC DUST MAY CAUSE TALCOSIS, A PULMONARY FIBROSIS, WHICH IN TURN MAY LEAD TO SEVERE AND PERMAP NENT DAMAGE TO THE LUNG.

PRIMARY ROUTES OF EXPOSURE: (X) - DERMAL (X) - INHALATION () - INGESTION

EMERGENCY AND FIRST AID PROCEDURES: FOR IRRITATION DUE TO INHALATION, REMOVE TO FRESH AIR. FOR EYE CONTACT, FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. IN CASE OF INGESTION, DRINK 1-2 GLASSES OF WATER TO DILUTE. DO NOT INDUCE VOMITING. CONSULT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: INDIVIDUALS WITH PULMONARY AND/OR RESPIRATORY DISEASE INCLUDING, BUT NOT LIMITED TO, ASTHMA AND BRONCHITIS SHOULD NOT BE EXPOSED TO SILICA DUSTS.

### SECTION VI — REACTIVITY DATA STABILITY: ()-UNSTABLE (X)-STABLE HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR HAZARDOUS DECOMPOSITION PRODUCTS: THE DRY PAINT FILM CAN BURN AND PRODUCE ONE OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, HYDROGEN CHLORIDE, AND/OR OXIDES OF NITROGEN. CONDITIONS TO AVOID: EXCESSIVE HEAT. INCOMPATIBILITY (MATERIALS TO AVOID): NONE REASONABLY FORESEEABLE. SECTION VII - SPILL OR LEAK PROCEDURES STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEARING PROTECTIVE GLOVES, WIPE UP LIQUID MATERIAL WITH ABSORBENT CLOTH. WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. SECTION VIII — SAFE HANDLING AND USE INFORMATION AND ARREST ARREST ARREST AND ARREST ARREST AND ARREST A RESPIRATORY PROTECTION: IN RESTRICTED VENTILATION AREAS - APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO REMOVE PARTICULATES AND VAPOR. VENTILATION: PROVIDE AIR MOVEMENT TO REMOVE EXCESS VAPORS. PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT. EYE PROTECTION: SAFETY GLASSES. OTHER PROTECTIVE EQUIPMENT: NONE. HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM. SECTION IX — SPECIAL PRECAUTIONS PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE IN EXCESSIVE HEAT (ABOVE 120 DF). USE WITH ADEQUATE VENTILATION. OTHER PRECAUTIONS: AVOID CONTACT WITH EYES. SECTION X — REGULATORY INFORMATION SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND.

CAS#

OF 40 CFR 372:

**CHEMICAL NAME** 

PERCENT BY WEIGHT

ar 5 1 5 5 67

3 7/3

NONE

includes the following: 05-280-WB

### FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME: COLUMBIA RAINT COMPANY
ADDRESS: NORTH 112 HAVEN STREET
ADDRESS: P. O. BOX 4569

SPOKANE, WA 99202

CITY, STATE:

EMERGENCY TELEPHONE NO.
INFORMATION TELEPHONE NO.

DAY: 509-535-9741 NIGHT: 1-800-424-9300 DAY: 509-535-9741 NIGHT: 1-800-424-9300

SECTION I - PRODUCT IDENTIFICATION MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE

PRODUCT CLASS: ACRYLIG - URETHANE TRADE NAME: SEE TABLE OF CONTENTS HMIS INFORMATION\*\*

HEALTH - 1 REACTIVITY - 1 FLAMMABILITY - 0

PERSONAL PROTECTIVE EQUIPMENT - H 

SECTION II — HAZARDOUS INGREDIENTS

TITANIUM DIOXIDE	*13463-67-7	21 88*	Not Est*	10.00*	Unk.*	Unknown	
N-METHYL PYRROLIDINONE	*872504	2.53*	Not Est*	Not Est*	Unk.*	.50 @	68.0
2,2,4 TRIMETHYL PENTANE DIOL-1,3 MONOISOBUTYRATE	*2526577 <b>4</b>		Not Est*		Unk.*	1.00@	189.0
2-PROPOXY ETHANOL exposure contrb via skin	*2807309 *492 k	3.68*	25.00*	Not Est*	1.3*	1.30 @	77.0
MATERIAL DESCRIPTION	\$400 CAS#	% BY WEIGHT	TLV - PPM	(TWA) MG/M3	LEL	PRESS MMHG	DEG F.

### SECTION III — PHYSICAL DATA

**BOILING RANGE:** VAPOR PRESSURE: VAPOR DENSITY: EVAPORATION RATE:

HIGH 644.0 DF LOW 180.0 DF SEE SECTION IL

SLOWER THAN BUTYL ACETATE

WEIGHT PER GALLON: 10,2

% VOLATILE BY VOLUME: % VOLATILE BY WEIGHT: 63.2 51.3 \*

### SECTION IV — FIRE AND EXPLOSION HAZARD DATA

OSHA-CLASS III-B DOT - NOT REGULATED FLAMMABILITY CLASSIFICATION

FLAMMABILITY CLASSIFICATION OSHA-CLASS III-B DOI - NOT REGULATED
LOWEST FLASHPOINT T.C.C. 200.0 DF LOWER EXPLOSION LEVEL (LEL) N/A
EXTINGUISHING MEDIA: () FOAM () CO2
() DRY CHEMICAL (X) WATER FOG () OTHER
UNUSUAL FIRE AND EXPLOSION HAZARDS: MATERIALS WILL NOT SUSTAIN COMBUSTION UNLESS WATER HAS EVAPORATED. CLOSED
CONTAINERS MAY EXPLODE FROM STEAM PRESSURE WHEN EXPOSED TO EXTREME HEAT. SPECIAL FIRE FIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AS PROTECTION

FROM HAZARDOUS COMBUSTION PRODUCTS. 

### SECTION V - HEALTH HAZARD DATA

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. INGESTION MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND/OR DIARNHEA. EYE CONTACT CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR REPEATED SKIN CONTACT WILL DRY AND DEFAT THE SKIN, LEADING TO IRRITATION AND DERMATITUS. <CHRONIC EFFECTS> REPEATED OVEREXPOSURE TO SOLVENT VAPORS MAY RESULT IN DAMAGE TO THE BLOOD. RATS EXPOSED TO TITANIUM DIOXIDE DUST AT 250 MG/M\* DEVELOPED LUNG CANCER; HOWEVER, SUCH EXPOSURE LEVELS ARE NOT ATTAINABLE IN THE WORK PLACE.

PRIMARY ROUTE(S) OF ENTRY: (X) DERMAL (X) INHALATION () INGESTION

EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE IMMEDIATELY; CALL A PHYSICIAN. IF BREATHING IS IRREGULAR OR STOPPED, START RESUSCITATION, ADMINISTER OXYGEN. IF INGESTED, DO NOT INDUCE VOMITING, BREATHING IS IRREGULAR OR STOPPED, START RESUSCITATION, ADMINISTER OXYGEN. IF INGESTED, DO NOT INDUCE VOMITING, CALL A PHYSICIAN IF SPLASHED INTO THE EYES, FLUSH EYES WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SUBSIDES. CONSULT A PHYSICIAN AS MAY BE REQUIRED. IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WARM WATER.

WASH SKIN WITH SOAP AND WARM WATER. MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: UNKNOWN.

# \*\*\*\*\*\*\*\*\*\*\* SECTION VI — REACTIVITY DATA STABILITY: () UNSTABLE (X) STABLE HAZARDOUS POLYMERIZATION () MAY OCCUR (X) WILL NOT OCCUR HAZARDOUS DECOMPOSITION PRODUCTS: THE DRY PAINT FILM CAN BURN AND PRODUCE ONE OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, HYDROGEN CHLORIDE, AND/OR OXIDES OF NITROGEN. (X) STABLE CONDITIONS TO AVOID: EXCESSIVE HEAT INCOMPATIBILITY (MATERIALS TO AVOID): NONE REASONABLY FORESEEABLE. SECTION VII — SPILL OR LEAK PROCEDURES STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEARING PROTECTIVE GLOVES, WIPE UP LIQUID MATERIAL WITH ABSORBENT CLOTH. WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. SECTION VIII — SAFE HANDLING AND USE INFORMATION RESPIRATORY PROTECTION: IF OUTDOORS, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/ MECHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS. VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM: VENTILATION AND RESPIRATORY PROTECTION MUST BE ADEQUATE TO PREVENT THE TLV'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED. PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT. EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS. OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON AND CLOTHING. HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY. SECTION VIII — SAFE HANDLING AND USE INFORMATION SECTION IX — SPECIAL PRECAUTIONS PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE IN EXCESSIVE HEAT (ABOVE 120 DF). USE WITH ADEQUATE VENTILATION. HER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. STORE IN SEALED CONTAINERS AWAY FROM SPACE HEATING EQUIPMENT. SECTION X — REGULATORY INFORMATION SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372: PERCENT BY CHEMICAL NAME WEIGHT CAS#

NONE

# \* MATERIAL SAFETY DATA SHEET GROUP 15

includes the following: 05-900-10

### FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME:

COLUMBIA PAINT COMPANY NORTH 112 HAVEN STREET

ADDRESS: **ADDRESS** 

P. O. BOX 4569 SPOKANE, WA 99202

CITY, STATE:

EMERGENCY TELEPHONE NO. INFORMATION TELEPHONE NO. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

DAY: 509-535-9741 DAY: 509-535-9741

NIGHT: 1-800-424-9300 NIGHT: 1-800-424-9300 \*\*\*\*\*\*\*\*\*\*\*\*\*

SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE PRODUCT CLASS: WATERBORNE EPOXY/POLYAMINE RESIN COATING

TRADE NAME: SEE TABLE OF CONTENTS HMIS INFORMATION\*\*

HEALTH - 1 **REACTIVITY - 1**  FLAMMABILITY - 0

PERSONAL PROTECTIVE EQUIPMENT - H

SECTION II — HAZARDOUS INGREDIENTS VAPOR PRESS % BY TLV - (TWA) INGREDIENT DEG F MG/M3 LEL MMHG WEIGHT PPM CAS# MATERIAL DESCRIPTION .60@ 68.0 120.00\* 1.1\* 2-BUTOXY ETHANOL \*111762 1,03\* 25.00\* exposure contrb via skin .01@ 68.0 Not Est\* Unk.\* BISPHENOL - A POLYGLYCIDYL ETHER 11.61\* Not Est\* \*25068386 68.0 Unk.\* .10@ \*68081845 .3.851 Not Est\* Not Est\* ALIPHATIC GLYCIDYL ETHER Unknown POLYETHYLENE POLYAMINE & 13.16\* 1.00\* Not Est\* Unk.\* **EPOXY ADDUCTS:SKIN EXPOS** 1,3\* 77.0 1.30@ Not Est\* 2-PROPOXY ETHANOL \*2807309 3.29\* 25.00\* -exposure contrb via skin 5.4\* 11.40@ 68.0 25.00\* \*64197 1.10\* 10.00\* **ACETIC ACID** Unknown Unk.\* \*13463-67-7 22.94\* Not Est\* 10.00\* TITANIUM DIOXIDE

# SECTION III — PHYSICAL DATA

**BOILING RANGE:** VAPOR PRESSURE: HIGH 338.0 DF LOW 212.0 DF

SEE SECTION II LIGHTER THAN AIR

VAPOR DENSITY: SLOWER THAN BUTYL ACETATE

**EVAPORATION RATE:** WEIGHT PER GALLON:

\*\*\*\*\*\*\*

10.4

% VOLATILE BY VOLUME: % VOLATILE BY WEIGHT:

60.3 48.0

# SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION LOWEST FLASHPOINT T.C.C. 200.0 DF

OSHA-CLASS III-B DOT - NOT REGULATED LOWER EXPLOSION LEVEL (LEL)

N/A

(X) DRY CHEMICAL (X) WATER FOG ( ) OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: MATERIALS WILL NOT SUSTAIN COMBUSTION UNLESS WATER HAS EVAPORATED. CLOSED
CONTAINERS MAY EXPLODE FROM STEAM PRESSURE WHEN EXPOSED TO EXTREME HEAT.
SPECIAL FIRE FIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AS PROTECTION
FROM HAZARDOUS COMBUSTION PRODUCTS.

# SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. CONTAINS SENSITIZING
MATERIAL WHICH MAY CAUSE ALLERGIC RESPIRATORY REACTION. INGESTION MAY RESULT IN GASTROINTESTINAL IRRITATION,
NAUSEA, VOMITING, AND/OR DIARRHEA. EYE CONTACT MAY CAUSE EYE INJURY WHICH MAY PERSIST FOR SEVERAL DAYS. SKIN
CONTACT MAY CAUSE SKIN IRRITATION AND/OR AN ALLERGIC SKIN REACTION WHICH CAN BE SEVERE IN CERTAIN INDIVIDUALS.

<CHRONIC EFFECTS> REPEATED OVEREXPOSURE TO SOLVENT VAPORS MAY RESULT IN INJURY TO ONE OR MORE OF THE FOLLOWING: LIVER, KIDNEYS, BLOOD CELLS, BONE MARROW. RATS EXPOSED TO TITANIUM DIOXIDE DUST AT 250 MG/M³ DEVELOPED
LUNG CANCER; HOWEVER, SUCH EXPOSURE LEVELS ARE NOT ATTAINABLE IN THE WORK PLACE.

PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION () - INGESTION
EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE IMMEDIATELY; CALL A PHYSICIAN. IF EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE IMMEDIATELY; CALL A PHYSICIAN. IF BREATHING IS IRREGULAR OR STOPPED, START RESUSCITATION, ADMINISTER OXYGEN. IF INGESTED, DO NOT INDUCE VOMITING; CALL A PHYSICIAN. IF SPLASHED INTO THE EYES, FLUSH EYES WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SUBSIDES; CONSULT A PHYSICIAN AS MAY BE REQUIRED. IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WARM WATER.

MEDICAL CONDITIONS PROPE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING SKIN OR LUNG DISEASES OR ALLERGIES. EXPOSURE

TO THIS PRODUCT MAY INCREASE THE CHANCE OF DEVELOPING INCREASED ALLERGY SYMPTOMS.

# SECTION VI — REACTIVITY DATA

STABILITY: ()-UNSTABLE (X)-STABLE
HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: THE DRY PAINT FILM CAN BURN AND PRODUCE ONE OR MORE OF THE FOLOWING: CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, PHENOLICS.
CONDITIONS TO AVOID: EXCESSIVE HEAT.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG ACIDS AND BASES, AMINES, MERCAPTANS,

### SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEARING PROTECTIVE GLOVES, WIPE UP LIQUID MATERIAL WITH ABSORBENT CLOTH.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

# SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN
CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.
VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY
AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE ADEQUATE TO PREVENT THE TLV'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.
PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.
EVER PROTECTION: LISE SAFETY EYEWEAR WITH SPI ASH GLIARDS OR SIDE SHIELDS.

EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON AND CLOTHING.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM, SMOKE IN SMOKING AREAS ONLY.

### SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE IN EXCESSIVE HEAT (ABOVE 120 DF). USE WITH ADEQUATE VENTILATION.

OTHER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS: STORE IN SEALED CONTAINERS AWAY FROM SPACE HEATING EQUIPMENT.

### SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CAS#

CHEMICAL NAME

PERCENT BY WEIGHT

**GLYCOL ETHERS** 

1.03%

02-770-WB

includes the following: 05-405-CC

05-410-CC

#### FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME:

COLUMBIA PAINT COMPANY **NORTH 112 HAVEN STREET** 

ADDRESS: ADDRESS: CITY, STATE:

P. O. BOX 4569 SPOKANE, WA 99202

**EMERGENCY TELEPHONE NO.** 

DAY: 509-535-9741 DAY: 509-535-9741

NIGHT: 1-800-424-9300 NIGHT: 1-800-424-9300

INFORMATION TELEPHONE NO. \*

# SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE PRODUCT CLASS: ACRYLIC LATEX RESIN COATING

TRADE NAME: SEE TABLE OF CONTENTS HMIS INFORMATION\*\*

**HEALTH - 1 REACTIVITY - 1**  FLAMMABILITY - 0

PERSONAL PROTECTIVE EQUIPMENT - J

# SECTION II — HAZARDOUS INGREDIENTS

		er van de				VAPOR	
——INGREDIENT—— MATERIAL DESCRIPTION	CAS#	% BY WEIGHT	TLV - PPM	(TWA) MG/M3	LEL	PRESS MMHG	DEG F.
MINERAL SPIRITS	*8052-41-3	1.62*	100.00*	Not Est*	1.0*	2.0 @	68.0
ETHYLENE GLYCOL	*107211	4.55*	50.00*	125.00*	3.2*	.08 @	68.0
SILICEOUS MUSCOVITE MICA -suspected carcinogen	*1318-94-1	6.95*	Not Est*	3.00*	Unk.*	Unkn	own
MAGNESIUM SILICATE (TALC)	*14807-96-6	<1.0-8.68*	Not Est*	2.00*	Unk.*	Unkn	own
CRYSTALLINE SILICA -suspected carcinogen	*14464-46-1	.1-8.68*	Not Est*	.05*	Unk.*	Unkn	own
2,2,4 TRIMETHYL PENTANE DIOL-1,3 MONOISOBUTYRATE	*25265774 *	1.62*	Not Est*	Not Est*	Unk.*	1.00 @	189.0
DIBUTYL PHTHALATE	*84742	1.07*	Not Est*	5.00*	Unk.*	1.00@	297.0
TITANIUM DIOXIDE	*13463-67-7	8.17*	Not Est*	10.00*	Unk.*	Unkn	own

THIS PRODUCT CONTAINS HAZARDOUS COMPONENTS WHICH MAY BECOME AIRBORNE AND RESULT IN EXPOSURE WHEN REMOVED BY ABRASIVE BLASTING, SANDING, OR GRINDING. VENTILATE AND AVOID BREATHING DUSTS. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### SECTION III — PHYSICAL DATA

**BOILING RANGE:** VAPOR PRESSURE: VAPOR DENSITY:

644.0 DF LOW 212.0 DF HIGH SEE SECTION II

LIGHTER THAN AIR

**EVAPORATION RATE** SLOWER THAN BUTYL ACETATE

WEIGHT PER GALLON: % VOLATILE BY VOLUME: % VOLATILE BY WEIGHT:

\*

10.66 - 11.7 51.0 - 55.9

36.2 - 44.1

# SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION LOWEST FLASHPOINT T.C.C. 200.0 DF EXTINGUISHING MEDIA: () FOAM

OSHA-CLASS III-B DOT - NOT REGULATED LOWER EXPLOSION LEVEL (LEL)

1.0%

) CO2

UNUSUAL FIRE AND EXPLOSION HAZARDS: MATERIALS WILL NOT SUSTAIN COMBUSTION UNLESS WATER HAS EVAPORATED. CLOSED CONTAINERS MAY EXPLODE FROM STEAM PRESSURE WHEN EXPOSED TO EXTREME HEAT.

SPECIAL FIRE FIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AS PROTECTION

FROM HAZARDOUS COMBUSTION PRODUCTS.

### SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: EXCESS INHALATION OF VOLATILIZED AMMONIA MAY PRODUCE HEADACHE, NAUSEA, IRRITATION TO RESPIRATORY TRACT. SKIN CONTACT MAY PRODUCE IRRITATION DUE TO SLIGHT ALKALINITY. PRESENCE OF VOLATILIZED AMMONIA MAY PRODUCE HEADACHE, NAUSEA, IRRITATION TO RESPIRATORY TRACT. SKIN CONTACT MAY PRODUCE IRRITATION DUE TO SLIGHT ALKALINITY. PRESENCE OF VOLATILIZED AMMONIA COULD IRRITATE EYES. EXCESS INHALATION OF VOLATILIZED ETHYLENE GLYCOL MAY CAUSE IRRITATION OF THE NOSE AND THROAT WITH HEADACHE, NAUSEA, AND VOMITING. ETHYLENE GLYCOL CAN BE HARMFUL OR FATAL IF SWALLOWED. SEVERE KIDNEY DAMAGE FOLLOWS THE SWALLOWING OF LARGE AMOUNTS OF ETHYLENE GLYCOL. LIQUID, VAPOR, AND MIST MAY CAUSE EYE IRRITATION. CRYSTALLINE SILICA DUST CAN CAUSE UPPER RESPIRATORY IRRITATION AND IRRITATION TO EYES. PROLONGED OVEREXPOSURE TO SILICA DUST BY INHALATION MAY CAUSE DELAYED LUNG INJURY/DISEASE (SILICOSIS). ON THE BASIS OF INITIAL EXPERIMENTAL TESTS IN ANMALS AND LIMITED EPIDEMIOLOGICAL STUDIES IN HUMAN POPULATIONS, THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED THAT THERE IS LIMITED EVIDENCE FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA TO HUMANS. RATS EXPOSED TO TITANIUM DIOXIDE DUST AT 250 MG/M³ DEVELOPED

CARCINOGENICITY OF CRYSTALLINE SILICA TO HUMANS. RATS EXPOSED TO TITANIUM DIOXIDE DUST AT 250 MG/M3 DEVELOPED LUNG CANCER; HOWEVER, SUCH EXPOSURE LEVELS ARE NOT ATTAINABLE IN THE WORK PLACE.

PRIMARY ROUTE(S) OF EXPOSURE: (X) DERMAL (X) INHALATION () INGESTION

EMERGENCY AND FIRST AID PROCEDURES: FOR IRRITATION DUE TO INHALATION, REMOVE TO FRESH AIR. FOR EYE CONTACT, FLUSH. WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. IN CASE OF INGESTION, DRINK 1-2 GLASSES OF WATER TO DILUTE. DO NOT INDUCE VOMITING. CONSULT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: ETHYLENE GLYCOL MAY AGGRAVATE EXISTING KIDNEY DISEASE. INDIVIDUALS WITH PULMONARY AND/OR RESPIRATORY DISEASE INCLUDING, BUT NOT LIMITED TO, ASTHMA AND BRONCHITIS SHOULD BE EXPOSED TO SULCA DUSTS.

SHOULD NOT BE EXPOSED TO SILICA DUSTS.

### SECTION VI — REACTIVITY DATA

STABILITY: () UNSTABLE (X) STABLE
HAZARDOUS POLYMERIZATION () MAY OCCUR (X) WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: THE DRY PAINT FILM CAN BURN AND PRODUCE ONE OR MORE OF THE FOLLOWING:
CARBON DIOXIDE, CARBON MONOXIDE, HYDROGEN CHLORIDE, AND/OR OXIDES OF NITROGEN.
CONDITIONS TO AVOID: EXCESSIVE HEAT.

INCOMPATIBILITY (MATERIALS TO AVOID): NONE REASONABLY FORESEEABLE.

#### SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEARING PROTECTIVE GLOVES, WIPE UP LIQUID MATERIAL WITH ABSORBENT CLOTH.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

### SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN RESTRICTED VENTILATION AREAS - APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO

REMOVE PARTICULATES AND VAPOR.
VENTILATION: PROVIDE AIR MOVEMENT TO REMOVE EXCESS VAPORS.
PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.
EYE PROTECTION: SAFETY GLASSES.
OTHER PROTECTIVE EQUIPMENT: NONE.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM.

### SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE IN EXCESSIVE HEAT (ABOVE 120 DF). USE WITH ADEQUATE VENTILATION.

OTHER PRECAUTIONS: AVOID CONTACT WITH EYES.

## SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CAS# CHEMICAL NAME	PERCENT BY WEIGHT	. •	
107-21-1 ETHYLENE GLYCOL BARIUM COMPOUNDS	<1.0 - 4.70% <1.0 - 2.11%2		
84-74-2 DIBUTYL PHTHALATE	<1.0 - 1.10%		

includes the following:

07-440-PP

11-800-XX

### FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME: ADDRESS:

COLUMBIA PAINT COMPANY **NORTH 112 HAVEN STREET** 

ADDRESS: CITY, STATE: P. O. BOX 4569 SPOKANE, WA 99202

EMERGENCY TELEPHONE NO.

NIGHT: 1-800-424-9300

INFORMATION TELEPHONE NO.

DAY: 509-535-9741 DAY: 509-535-9741

NIGHT: 1-800-424-9300 

### SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE
PRODUCT CLASS: AROMATIC MOISTURE-CURE URETHANE RESIN COATING
TRADE NAME: SEE TABLE OF CONTENTS
HMIS INFORMATION\*\*
HEALTH - 3
FLAMMABILITY - 3

**REACTIVITY - 1** 

PERSONAL PROTECTIVE EQUIPMENT - H

# SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	% BY WEIGHT	TLV - ( PPM	TWA) MG/M3	LEL	VAPOR PRESS MMHG	DEGF
HIGH-BOILING AROMATIC HYDROCARBON	*64742-95-6	>1.0-17.83*	80.00*	Not Est*	1.0	5.00@	100.0
ALUMINUM PIGMENT	*7429905	>1.0-14.67*	Not Est*	10.00*	Unk.*	Unkr	iown
HIGH FLASH NAPTHA	*68333880	>1.0-7.90*	100.00*	Not Est*	1.0*	5.00 @	100.0
XYLENE (MIXED ISOMERS)	*1330-20-7	>1.0-10.38*	100.00*	434.00*	1,0*	6.00@	68.0
ETHYL BENZENE	*100414	>1.0-2.12*	100.00*	435.00*	1.2*	10.00@	78.6
METHYLENE BISPHENYL ISOCYANATE (MDI)	*101688	>.10-9.53*	.01*	.05*	Unk.t	Unkr	nown
N-BUTYL ACETATE	*123864	>1.0-12.50*	150.00*	710.00*	1.4*	8.00@	68.0
HEXAMETHYLENE DIISOCYANATE (HDI)	*822060	>.10-1.20*	.01*	.03*	Unk.*	.02 @	68,0
HEXAMETHYLENE DIISO- CYANATE HOMOPOLYMER	*28182812	>.10-73.80*	Not Est*	1.00*	Unk.*	Unkr	ıown

THIS PRODUCT CONTAINS HAZARDOUS COMPONENTS WHICH MAY BECOME AIRBORNE AND RESULT IN EXPOSURE WHEN REMOVED BY ABRASIVE BLASTING, SANDING, OR GRINDING. VENTILATE AND AVOID BREATHING DUSTS.

# SECTION III — PHYSICAL DATA 277.0 DF

BOILING RANGE: VAPOR PRESSURE: VAPOR DENSITY: **EVAPORATION RATE:** 

HIGH 350.0 DF LOW SEE SECTION II

HEAVIER THAN AIR SLOWER THAN BUTYL ACETATE 8.8 - 9.2

WEIGHT PER GALLON: % VOLATILE BY VOLUME: 29.4 - 41.9 % VOLATILE BY WEIGHT: 25.0 - 35.4

### SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION LOWEST FLASHPOINT T.C.C. 98.0 DF

DOT - FLAMMABLE LIQUID OSHA-CLASS IC

FLAMMABILITY CLASSIFICATION OSHA-CLASS IC DOT - FLAMMABLE LIQUID
LOWEST FLASHPOINT T.C.C. 98.0 DF LOWER EXPLOSION LEVEL (LEL) 1.0%

EXTINGUISHING MEDIA: () FOAM () ALCOHOL-FOAM () CO2

(X) DRY CHEMICAL () WATER FOG () OTHER
UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP AWAY FROM HEAT, SPARKS, AND FLAME. VAPORS MAY IGNITE EXPLOSIVELY. VAPORS MAY SPREAD
LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS AND TURN OFF HEATERS, NON-EXPLOSION PROOF ELECTRICAL
EQUIPMENT, AND ALL OTHER SOURCES OF IGNITION UNTIL VAPORS ARE GONE. IN CLOSED CONTAINERS, PRESSURE BUILDUP MAY OCCUR DUE TO
HEAT EXPOSURE. WATER CONTAMINATION MAY INCREASE THIS TENDENCY DUE TO CARBON DIOXIDE AND/OR HYDROGEN EVOLUTION. DURING
EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY
APPARENT. OBTAIN MEDICAL ATTENTION. (SEE SECTION VI).

SPECIAL FIRE FIGHTING PROCEDURES: DO NOT USE A WATER STREAM. DO NOT USE HALOGENATED EXTINGUISHING AGENTS, LIKE HALON OR CARBON
TETRACHLORIDE. CARE SHOULD BE USED WHEN APPLYING A CLASS B EXTINGUISHING AGENT AS SOME AGENTS CAN ACCELERATE A FIRE WHEN
MOST OF THE SOLVENT HAS BEEN CONSUMED AND THE ALUMINUM FLAKE HAS STARTED TO BURN. ISOLATE THE FIRE BY RINGING IT WITH A DRY,
INERT GRANULAR MATERIAL, OR CLASS D EXTINGUISHING AGENT, THEN LET IT ALONE. ALLOW THE MATERIAL TO BECOME COLD BEFORE DISPOSAL,
SINCE METAL MAY CONTINUE TO BURN UNDER A CRUST WITHOUT FLAME. FULL PROTECTIVE EQUIPMENT IS RECOMMENDED, INCLUDING SELFCONTAINED BREATHING APPARATUS, TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS. NO SKIN SURFACE SHOULD BE
EXPOSED. EXPOSED.

# SECTION V — HEALTH HAZARD DATA

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SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR DEATH. ISOCYANATE OVER-EXPOSURE MAY IRRITATE MUCOUS MEMBRANES OF THE RESPIRATORY TRACT, CAUSING RUNNY NOSE, DRYNESS OF THROAT, COUGHING, TIGHTNESS IN CHEST, LABORED BREATHING, OR BURNING SENSATION. EXTENSIVE EXPOSURES TO ISOCYANATE LEVELS ABOVE TLY COULD LEAD TO BRONCHITIS, BRONCHIAL SPASM, AND PULMONARY EDEMA. INGESTION MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND/OR DIARRHEA. EYE CONTACT CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION, AND POSSIBLE CORNEAL INJURY. PROLONGED OR REPEATED SKIN CONTACT WILL DRY AND DEFAT THE SKIN, LEADING TO IRRITATION AND DERMATITUS. «CHRONIC EFFECTS» REPEATED OVEREXPOSURE TO SOLVENT VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM; BLOOD, LIVER, AND/OR KIDNEY INJURY, HEARING LOSS; ISOCYANATES CAN CAUSE LUNG SENSITIZATION. AN ALLERGIC RESPIRATORY REACTION INCLUDING CHEST TIGHTNESS, RESPIRATORY DISTRESS, OR ASTHMATIC ATTACK MAY OCCUR IN SENSITIZED INDIVIDUALS WHEN EXPOSURE TO THE ISOCYANATE IS BELOW THE TLV. CAN CAUSE LUNG, INJURY, PROLONGED OR REPEATED CONTACT WITH THE SKIN CAN PRODUCE SKIN SENSITIZATION IN SOME INDIVIDUALS RESULTING IN ALLERGIC DERMATITIS WHICH MAY INCLUDE IT CHINIG, RASH, HIVES, AND SWELLING OF EXTREMITIES.

PRIMARY ROUTE(S) OF ENTRY: (X) - DERMAL (X) - INHALATION () - INGESTION

EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE IMMEDIATELY; CALL A PHYSICIAN. IF BREATHING IS IRREGULAR OR STOPPED, START RESUSCITATION, ADMINISTER OXYGEN. TREAT ANY ASTHMATIC-TYPE REACTIONS SYMPTOMATICALLY. IF INGESTED, DO NOT INDUCE VOMITING; CALL A PHYSICIAN. IF SPLASHED INTO THE EYES, FLUSH EYES WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SU

# SECTION VI — REACTIVITY DATA

REGULATIONS.

STABILITY: ()-UNSTABLE (X)-STABLE
HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY INCLUDE ONE OR MORE
OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, ALUMINUM OXIDE, ALUMINUM NITRIDE, ISOCYANATE MONOMER
(SEE SECTION II), AND/OR TRACES OF HYDROGEN CYANIDE.

CONDITIONS TO AVOID: HIGH TEMPERATURES OR DIRECT HEATING

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INCOMPATIBILITY (MATERIALS TO AVOID): OXYGEN AND STRONG OXIDANTS, STRONG BASES, WATER, ALCOHOLS, AMINES, METAL COMPOUNDS, SURFACE ACTIVE MATERIALS, PHOSPHOROUS CONTAINING MATERIALS, CHLORINATED HYDROCARBONS.

# SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION, PROVIDE VENTILATION AND FULL PROTECTIVE EQUIPMENT. CONTAIN AND COVER SPILL WITH INERT ABSORBENT MATERIAL; POUR LIQUID DECONTAMINANT OVER SPILLAGE AND ALLOW TO REACT AT LEAST 10 MIN.; COLLECT MATERIAL WITH NON-SPARKING TOOLS INTO OPEN CONTAINERS AND ADD FURTHER AMOUNTS OF DECONTAMINATION SOLUTION; COVER LOOSELY. WASH DOWN AREA WITH DECONTAMINANT AND FLUSH WITH WATER. "DECONTAMINATION SOLUTIONS: AMMONIUM HYDROXIDE (0-10%), DETERGENT (2-5%), AND BALANCE WATER; OR SOLUTION OF UNION CARBIDE'S TERGITOL TMN-10 (20%) AND WATER (80%).

WASTE DISPOSAL METHOD: DO NOT CLOSE CONTAINERS OF DECONTAMINATED MATERIAL UNTIL THE EVOLUTION OF CARBON DIOXIDE IS COMPLETE. INCINERATE OPENED CONTAINERS IN AN APPROVED FACILITY OR USE SECURE LANDFILL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL

SECTION VIII — SAFE HANDLING AND USE INFORMATION

SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: USE RESPIRATOR THAT IS RECOMMENDED OR APPROVED FOR USE IN ISOCYANATE CONTAINING ENVIRONMENTS (AIR PURIFYING OR FRESH AIR SUPPLIED). CONSIDER TYPE OF APPLICATION AND ENVIRONMENTAL CONCENTRATIONS. IN SPRAY APPLICATION YOU MUST PROTECT AGAINST EXPOSURE TO BOTH VAPOR AND SPRAY MIST. OBSERVE OSHA REGULATIONS FOR RESPIRATOR USE (29 CFR 1910.134). WHEN THE AIRBORNE ISOCYANATE MONOMER CONCENTRATIONS ARE KNOWN TO BE BELOW 0.2 PPM AND IF THE POLYISOCYANATE (POLYMERIC. OLIGOMER) CONCENTRATIONS ARE KNOWN TO BE BELOW 10 MG/MS, A PROPERLY FITTED AIR-PURIFYING (COMBINATION ORGANIC VAPOR AND PARTICULATE) RESPIRATOR, PROVEN BY TEST TO BE EFFECTIVE IN ISOCYANATE-CONTAINING SPRAY PAINT ENVIRONMENTS, WILL PROVIDE SUFFICIENT PROTECTION. WHEN THE AIRBORNE ISOCYANATE CONCENTRATIONS ARE NOT KNOWN, OR IF EITHER OF THE ABOVE GUIDELINES IS EXCEEDED, OR IF SPRAYING IS PERFORMED IN A CONFINED SPACE OR AREA WITH LIMITED VENTILATION, THE USE OF A POSITIVE PRESSURE AIR: SUPPLIED RESPIRATOR IS MANDATORY. "NOTIE" EVEN DURING NON-SPRAY OPERATIONS SUCH AS MIXING, BRUSH OR ROLLER APPLICATION, IT IS POSSIBLE TO BE EXPOSED TO SOLVENT OR ISOCYANATE VAPORS. UNLESS CONCENTRATIONS ARE KNOWN TO BE BELOW TLY'S, THE ABOVE GUIDELINES SHOULD STILL BE FOLLOWED.

VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY AND/OR FLAMMABLE-VAPOR MUST, NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE ADEQUATE TO PREVENT THE TLY'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.

SKIN PROTECTION: CHEMICAL RESISTANT GLOVES. COVER AS MUCH OF EXPOSED SKIN AREA AS POSSIBLE WITH APPROPRIATE CLOTHING. EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.

OTHER PROTECTIVE MEASURES: USE PROTECTIVE APRON OR CLOTHING. EYE WASH STATION AND SAFETY SHOWERS SHOULD BE AVAILABLE. HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY.

# SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME. NO SMOKING OR OPEN LIGHTS.
STORE IN TIGHTLY CLOSED CONTAINER AND PROTECT FROM MOISTURE AND FOREIGN MATERIALS. IF CONTAMINANTS ENTER CONTAINER, PRESSURE CAN BUILD UP DUE TO REACTION PRODUCING CARBON DIOXIDE AND HYDROGEN WHICH CAN CAUSE SEALED CONTAINER TO PRESSURIZE AND BURST. DO NOT RESEAL IF CONTAMINATION IS SUSPECTED.

OTHER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED

BREATHING OF VAPORS. 

# **SECTION X — REGULATORY INFORMATION**

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CAS#	PERCENT BY CHEMICAL NAME WEIGHT	
7429-90-5	ALUMINUM (FUME OR DUST) >1.0 - 16.93%	
1330-20-7 100-41-4	XYLENE (MIXED ISOMERS) >1.0 - 10.38% ETHYL BENZENE >1 0 - 2 12%	
101-68-8	+1.0 - 2.12% 4,4-DIPHENYLMETHANE DIISOCYANATE >.10 - 8.10%	

includes the following: 88-645-02

# FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME:

**COLUMBIA PAINT COMPANY** NORTH 112 HAVEN STREET P. O. BOX 4569

ADDRESS: ADDRESS: CITY, STATE:

SPOKANE, WA 99202

\*

**EMERGENCY TELEPHONE NO** 

DAY: 509-535-9741

NIGHT: 1-800-424-9300 NIGHT: 1-800-424-9300

VADOD

INFORMATION TELEPHONE NO. \*\*\*\*\*\*\*\*\*\*\*\*\*

DAY: 509-535-9741

# SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE PRODUCT CLASS: OIL/ALKYD RESIN PRIMER COATING TRADE NAME: SEE TABLE OF CONTENTS

HMIS INFORMATION\*\*

HEALTH - 2 REACTIVITY - 1 FLAMMABILITY - 2

PERSONAL PROTECTIVE EQUIPMENT - J

# SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	% BY WEIGHT	TLV - PPM	(TWA) MG/M3	LEL	PRESS MMHG	DEG F.
MINERAL SPIRITS	*8052-41-3	20.98*	100.00*	Not Est*	1.0*	2.00 @	68.0
BASIC ZINC MOLYBDATE	*13767-32-3	20.94*	Not Est*	15.00*	Unk.*	Unk	nown
CRYSTALLINE SILICA (AS QUARTZ)	*14808-60-7	.18*	Not Est*	.10*	Unk.*		nown

THIS PRODUCT CONTAINS HAZARDOUS COMPONENTS WHICH MAY BECOME AIRBORNE AND RESULT IN EXPOSURE WHEN REMOVED I ABRASIVE BLASTING, SANDING, OR GRINDING. VENTILATE AND AVOID BREATHING DUSTS. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

# SECTION III — PHYSICAL DATA

399.0 DF HIGH

LOW 305.0 DF

BOILING RANGE: VAPOR PRESSURE: VAPOR DENSITY: EVAPORATION RATE

SEE SECTION II

**HEAVIER THAN AIR** 

SLOWER THAN BUTYL ACETATE

WEIGHT PER GALLON: % VOLATILE BY VOLUME:

13.4 43.8

% VOLATILE BY WEIGHT:

21.6

APPEARANCE - ODOR: PH - SOLUBILITY:

LIGHT YELLOW LIQUID INSOLUBLE IN WATER

# SECTION IV — FIRE AND EXPLOSION HAZARD DATA

OSHA-CLASS II DOT - COMBUSTIBLE LIQUID FLAMMABILITY CLASSIFICATION LOWER EXPLOSION LEVEL (LEL)

LOWEST FLASHPOINT T.C.C. 105.0 DF LOWER EXPLOSION LEVEL (LEL) 1.0%

EXTINGUISHING MEDIA: (X) FOAM () ALCOHOL FOAM (X) CO2

EXTINGUISHING MEDIA: (X) DRY CHEMICAL () WATER FOG () OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT, AND OPEN FLAME. IN CLOSED CONTAINERS, PRESSURE BUILDUP MAY OCCUR DUE TO HEAT EXPOSURE. DURING EMERGENCY CONDITIONS, OVEREXPOSURE DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDIC ATTENTION. (SEE SECTION VI) SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. HOWEVER, WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP. FULL PROTECTIVE EQUIPMENT RECOMMENDED INCLUDING SELF-CONTAINED BREATHING APPARATUS, TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS.

# SECTION V — HEALTH HAZARD DATA

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATH ING CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR DEATH. INGESTION MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND/OR DIARRHEA. EYE CONTACT CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR REPEATED SKIN CONTACT WILL DRY A CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR REPEATED OVEREXPOSURE TO SOLVENT DEFAT THE SKIN, LEADING TO IRRITATION AND DERMATITUS. <CHRONIC EFFECTS> REPEATED OVEREXPOSURE TO SOLVENT VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJUF VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJUF VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJUF VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJUF VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJUF VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJUF VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJUF VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJUF VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJUF VAPORS MAY RESULT IN ORDER TO SULLICATE OR MAY CAUSE DELAYED LUNG INJURY/DISEASE (SILICOSIS). ON THE BASIS OF OVEREXPOSURE TO SILICA DISTRIBUTED SILICA TO HUMANS. CRYSTALLINE SILICA TO HUMANS

CHYSTALLINE SILICATO HUMANS.

PRIMARY ROUTE(S) OF ENTRY: (X) - DERMAL (X) - INHALATION ( ) - INGESTION

PRIMARY ROUTE(S) OF ENTRY: (X) - DERMAL (X) - INHALATION ( ) - INGESTION

EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE IMMEDIATELY; CALL A PHYSICIAN.

EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE IMMEDIATELY; CALL A PHYSICIAN.

BREATHING IS IRREGULAR OR STOPPED, START RESUSCITATION, ADMINISTER OXYGEN. IF INGESTED, DO NOT INDUCE VOMITIN

BREATHING IS IRREGULAR OR STOPPED, START RESUSCITATION, ADMINISTER OXYGEN. IF INGESTED, DO NOT INDUCE VOMITIN

CALL A PHYSICIAN. IF SPLASHED INTO THE EYES, FLUSH EYES WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SUB-SIDES; CONSULT A PHYSICIAN AS MAY BE REQUIRED. IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WARM WATER.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING SKIN DISORDERS, CHRONIC RESPIRATORY DISEASES. INDIVIDUALS WITH PULMONARY AND/OR RESPIRATORY DISEASE INCLUDING, BUT NOT LIMITED TO, ASTHMA AND BRONCHITIS SHOULD NOT BE EXPOSED TO SILICA DUSTS.

# SECTION VI - REACTIVITY DATA

A 19751 VC

STABILITY: ()-UNSTABLE (X)-STABLE
HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY INCLUDE ONE OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, ACROLEIN, HYDROGEN CHLORIDE, OXIDES OF NITROGEN.

CONDITIONS TO AVOID: HIGH TEMPERATURES OR DIRECT HEATING.
INCOMPATIBILITY (MATERIALS TO AVOID): OXYGEN AND STRONG OXIDANTS, STRONG ACIDS, STRONG BASES, AND AMINES. WILL DISSOLVE OR SOFTEN SOME PLASTICS AND RUBBER.

# SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS). VENTILATE AREA, CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. REFER TO OTHER HAZARD CAUTIONS CONTAINED ON THIS SHEET BEFORE ATTEMPTING CLEAN-UP. WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

# SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/ME-CHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.

CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.

VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE ADEQUATE TO PREVENT THE TLY'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON. OR CLOTHING.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY.

# SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME, NO SMOKING OR OPEN LIGHTS.

OTHER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. STORE IN SEALED CONTAINERS AWAY FROM SPACE HEATING EQUIPMENT.

# SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

> PERCENT BY CAS# CHEMICAL NAME WEIGHT

> > ZINC COMPOUNDS

20.94%

includes the following: 11-905-XX

# FOR COATINGS, RESINS, AND RELATED MATERIALS **DATE OF PREPARATION - 11/1/91**

MANUFACTURER'S NAME:

COLUMBIA PAINT COMPANY NORTH 112 HAVEN STREET

ADDRESS: ADDRESS:

P. O. BOX 4569 SPOKANE, WA 99202

CITY, STATE:

NIGHT: 1-800-424-9300 NIGHT: 1-800-424-9300 \*\*\*\*\*\*\*\*\*\*\*

EMERGENCY TELEPHONE NO. INFORMATION TELEPHONE NO. \*

DAY: 509-535-9741 DAY: 509-535-9741

SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE PRODUCT CLASS: ORGANIC SOLVENT BLEND

PRODUCT CLASS: ORGANIO SOLVETTE TRADE NAME: SEE TABLE OF CONTENTS
TRADE INFORMATION\*\*
HEALTH - 2
HE

HMIS INFORMATION\*\* REACTIVITY - 1 FLAMMABILITY - 3

PERSONAL PROTECTIVE EQUIPMENT - H

# SECTION II — HAZARDOUS INGREDIENTS

		SECT	ION II — HAZ	ANDOOS	101122	_	VAPOR	
INGREDIENT		CAS#	% BY WEIGHT	TLV - ( PPM	TWA) MG/M3	LEL	PRESS MMHG	DEG F.
MATERIAL DESCRIPTION	<u> </u>	*108656	4.00*	Not Est*	Not Est*	1.3*	3.70 @	` 68.0
1-METHOXY-2-ACETOXY PROPANE		*	*	*	375.00*	1.2*	22.00 @	68.0
TOLUENE		*108883	27.00*	100.00*	260.00*	6.0*	100.00@	68.0
METHANOL		*67561 *	2.00*	200.00*	260.00	• • • •		
-exposure contrb via skin		*67641	46.00*	750.00*	1780.00*	2.6*	184.00 @	68.0
ACETONE			16.00*	300.00*	1350.00*	1.0*	26.00 @	77.0
VM&P NAPTHA		*8030306	4.15*	100.00*	434.00*	1.0*	6.00@	68.0 ******
XYLENE (MIXED ISOMER	S) ******	*1330-20-7 ******	4.10 ******	*****	*****	******	**********	battara aras aras aras aras aras aras ara

# SECTION III — PHYSICAL DATA

BOILING RANGE: VAPOR PRESSURE:

133.0 DF LOW 312.0 DF HIGH.

VAPOR DENSITY: EVAPORATION RATE: SEE SECTION II
HEAVIER THAN AIR
SLOWER THAN BUTYL ACETATE

WEIGHT PER GALLON: % VOLATILE BY VOLUME: % VOLATILE BY WEIGHT: 6.8 100.0 100.0

SECTION IV — FIRE AND EXPLOSION HAZARD DATA
OSHA-CLASS IB DOT - FLAMMABLE LIQUID
DF LOWER EXPLOSION LEVEL (LEL) 1.0%

LOWEST FLASHPOINT T.C.C. 25.0 DF LOWER EXPLOSION LEVEL (LEL) 1.0%

EXTINGUISHING MEDIA: (X) FOAM (X) ALCOHOL FOAM (X) CO2

EXTINGUISHING MEDIA: (X) FOAM (X) OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP AWAY FROM HEAT, SPARKS, AND FLAME. VAPORS MAY IGNITE EXPLOSIVELY.

VAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATVAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATVAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATVAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATVAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATVAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATVAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATVAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATVAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATVAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATVAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATVAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATVAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATVAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATVAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS AND TURN OFF HEATVAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS AND

SUHE TO DECOMPOSITION PRODUCTS WAT CAUSE A REALTH TIAZARD. STAIL TO THE TOTAL TO PREVENT PRESSURE MEDICAL ATTENTION. (SEE SECTION VI).

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP. FULL PROTECTIVE EQUIPMENT RECOMMENDED, INCLUDING SELF-CONTAINED BREATHING APPARATUS, TO PROTECT BUILDUP. FULL PROTECTIVE EQUIPMENT RECOMMENDED, INCLUDING SELF-CONTAINED BREATHING APPARATUS, TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMP-FECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING
CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR
DEATH. INGESTION MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND/OR DIARRHEA. INGESTION OF A
LARGE QUANTITY OF THIS MATERIAL WILL RESULT IN METHYL ALCOHOL POISONING. IN THIS CASE, SHORTNESS OF BREATH,
CONFUSION, DRUNKEN BEHAVIOR, VISUAL DISTURBANCES, DROWSINESS, COMA, AND DEATH MAY RESULT. VISUAL EFFECTS
INCLUDE BLURRED VISION, DIPLOPIA, CHANGES IN COLOR PERCEPTION, RESTRICTION OF VISUAL FIELDS AND COMPLETE BLINDNESS. INGESTION OF MODERATE QUANTITIES OF METHANOL ALSO PRODUCES ACIDOSIS. ONSET OF SYMPTOMS MAY BE DELAYE
NESS. INGESTION OF MODERATE QUANTITIES OF METHANOL ALSO PRODUCES ACIDOSIS. ONSET OF SYMPTOMS MAY BE DELAYE
NESS. EYE CONTACT CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR
REPEATED SKIN CONTACT WILL DRY AND DEFAT THE SKIN, LEADING TO IRRITATION AND DERMATITUS. <CHRONIC EFFECTS>
REPEATED OVEREXPOSURE TO SOLVENT VAPOR MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTE
REPEATED OVEREXPOSURE TO SOLVENT VAPOR MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTE BLOOD, LIVER, AND/OR KIDNEY INJURY, HEARING LOSS. LONG-TERM EXPOSURE TO >1000 PPM METHANOL VAPOR MAY PRODUCE

BLOOD, LIVEH, AND/OH RIDNET INSURT, HEADING SERVING SE WARM WATER.

PRIMARY ROUTE(S) OF EXPOSURE: (X) - DERMAL (X) - INHALATION ( ) - INGESTION
MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING SKIN OR EYE DISORDERS, CHRONIC RESPIRATORY DISEASES \*

# SECTION VI — REACTIVITY DATA

STABILITY: ()-UNSTABLE (X)-STABLE
HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY
INCLUDE ONE OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, ACROLEIN, HYDROGEN CHLORIDE, OXIDES OF NITROGEN.

CONDITIONS TO AVOID: HIGH TEMPERATURES OR DIRECT HEATING.
INCOMPATIBILITY (MATERIALS TO AVOID): OXYGEN AND STRONG OXIDANTS, STRONG ACIDS, STRONG BASES, AND AMINES. WILL DISSOLVE OR SOFTEN SOME PLASTICS AND RUBBER.

# SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS). VENTILATE AREA, CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. REFER TO OTHER HAZARD CAUTIONS CONTAINED ON THIS SHEET BEFORE ATTEMPTING CLEAN-UP.
WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

# SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/ME-CHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.

VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE ADEQUATE TO PREVENT THE TLV'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION: LISE SAFETY EYEWEAR WITH SPI ASH GLIARDS OR SIDE SHIELDS.

EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON OR CLOTHING.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY.

# SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME. NO SMOKING OR OPEN LIGHTS.

OTHER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. STORE IN SEALED CONTAINERS AWAY FROM SPACE HEATING EQUIPMENT.

### SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CAS#	CHEMICAL NAME	PERCENT BY WEIGHT	
1330-2-7 108-88-3	XYLENE (MIXED ISOMERS) TOLUENE	4.63%	
 67-64-1	ACETONE	27.00% 46.00%	

includes the following: 11-906-XX

### FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME:

**COLUMBIA PAINT COMPANY** 

ADDRESS:

NORTH 112 HAVEN STREET P. O. BOX 4569

ADDRESS: CITY, STATE:

SPOKANE, WA 99202

EMERGENCY TELEPHONE NO.

DAY: 509-535-9741 DAY: 509-535-9741

NIGHT: 1-800-424-9300

INFORMATION TELEPHONE NO.

NIGHT: 1-800-424-9300

SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE

PRODUCT CLASS: ORGANIC SOLVENT BLEND TRADE NAME: SEE TABLE OF CONTENTS **HMIS INFORMATION\*\*** 

HEALTH - 2 **REACTIVITY - 1**  FLAMMABILITY - 3

PERSONAL PROTECTIVE EQUIPMENT - H

### SECTION II — HAZARDOUS INGREDIENTS

MATERIAL DESCRIPTION	 . CAS#	% BY WEIGHT	TLV - PPM	(TWA) MG/M3	LEU A	VAPOR PRESS MMHG DEG F.
ACETONE	 *67641	18.00*	750.00*	1780.00*	2.6*	184.00 @ 68.0
ISOPROPANOL	*67630	15.00*	400.00*	980.00*	25.0*	33.00 @ 68.0
BUTANOL -exposure contrb via skin	*71363	5.00*	50.00*	150.00*	74	5.50 @ 68.0
TOLUENE	*108883	52.00*	100.00*	375.00*	1.2*	22.00 @ 68.0
VM&P NAPTHA	*8030306	10.00*	300.00*	1350.00*	1.0*	26.00 @ 77.0

# SECTION III — PHYSICAL DATA

**BOILING RANGE:** 

312.0 DF

LOW 133.0 DF

\*

VAPOR PRESSURE: VAPOR DENSITY:

SEE SECTION II **HEAVIER THAN AIR** 

**EVAPORATION RATE:** SLOWER THAN BUTYL ACETATE

WEIGHT PER GALLON: % VOLATILE BY VOLUME: % VOLATILE BY WEIGHT:

6.9 100.0 100.0

# SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION LOWEST FLASHPOINT T.C.C. 37.0 DF

OSHA-CLASS IB DOT - FLAMMABLE LIQUID F LOWER EXPLOSION LEVEL (LEL)

EXTINGUISHING MEDIA: (X) FOAM (X) CO2

(X) DRY CHEMICAL () WATER FOG () OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP AWAY FROM HEAT, SPARKS, AND FLAME. VAPORS MAY IGNITE EXPLOSIVELY.

VAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATERS, NON-EXPLOSION PROOF ELECTRICAL EQUIPMENT, AND ALL OTHER SOURCES OF IGNITION UNTILL ALL VAPORS ARE GONE. IN
CLOSED CONTAINERS, PRESSURE BUILDUP MAY OCCUR DUE TO HEAT EXPOSURE. DURING EMERGENCY CONDITIONS, OVEREXPO-SURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN

MEDICAL ATTENTION. (SEE SECTION VI).

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. HOWEVER, WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP. FULL PROTECTIVE EQUIPMENT RECOMMENDED, INCLUDING SELF-CONTAINED BREATHING APPARATUS, TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS.

# SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR DEATH, INGESTION MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND/OR DIARRHEA. EYE CONTACT CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR REPEATED SKIN CONTACT WILL DRY AND DEFAT THE SKIN, LEADING TO IRRITATION AND DERMATITUS. <CHRONIC EFFECTS> REPEATED OVEREXPOSURE TO SOLVENT VAPOR MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJURY, HEARING LOSS.

PRIMARY ROUTE(S) OF ENTRY: (X) - DERMAL (X) - INHALATION ( ) - INGESTION
EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE IMMEDIATELY; CALL A PHYSICIAN. IF
BREATHING IS IRREGULAR OR STOPPED, START RESUSCITATION, ADMINISTER OXYGEN: IF INGESTED, DO NOT INDUCE VOMITING;
CALL A PHYSICIAN. IF SPLASHED INTO THE EYES, FLUSH EYES WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SUB-SIDES; CONSULT A PHYSICIAN AS MAY BE REQUIRED. IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WARM WATER.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING SKIN DISORDERS, CHRONIC RESPIRATORY DISEASES. 

# **SECTION VI — REACTIVITY DATA**

STABILITY: ()-UNSTABLE (X)-STABLE
HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY INCLUDE ONE OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, ACROLEIN, HYDROGEN CHLORIDE, OXIDES OF NITROGEN.

CONDITIONS TO AVOID: HIGH TEMPERATURES OR DIRECT HEATING.
INCOMPATIBILITY (MATERIALS TO AVOID): OXYGEN AND STRONG OXIDANTS, STRONG ACIDS, STRONG BASES, AND AMINES. WILL DISSOLVE OR SOFTEN SOME PLASTICS AND RUBBER.

# SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS). VENTILATE AREA, CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. REFER TO OTHER HAZARD CAUTIONS CONTAINED ON THIS SHEET BEFORE ATTEMPTING CLEAN-UP.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

### SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/ME-CHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.

VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE ADEQUATE TO PREVENT THE TLV'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON OR CLOTHING.

HYGIENIC PRACTICES: WASH HANDS REFORE FATING OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY.

### SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME. NO SMOKING OR **OPEN LIGHTS** 

HER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. STORE IN SEALED CONTAINERS AWAY FROM SPACE HEATING EQUIPMENT.

## SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CAS#	CHEMICAL NAME	PERCENT BY WEIGHT	
 67-64-1 71-36-3	ACETONE N-BUTYL ALCOHOL	18.00% 5.00%	
108-88-3	TOLUENE	52.00%	그 사람들은 기계

includes the following: 88-195-CC

### FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION -11/1/91

MANUFACTURER'S NAME: ADDRESS:

COLUMBIA PAINT COMPANY NORTH 112 HAVEN STREET

ADDRESS: CITY, STATE: P. O. BOX 4569 SPOKANE, WA 99202

EMERGENCY TELEPHONE NO.

DAY: 509-535-9741 DAY: 509-535-9741

NIGHT: 1-800-424-9300 NIGHT: 1-800-424-9300

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7630

2 8 12 13 18 LY

INFORMATION TELEPHONE NO. \*\*\*\*\*\*\*\*

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# SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE PRODUCT CLASS: LATEX EMULSION COATING TRADE NAME: SEE TABLE OF CONTENTS HMIS INFORMATION\*\* HEALTH - 2 FLATING TO THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF T

REACTIVITY - 1

FLAMMABILITY - 0
PERSONAL PROTECTIVE EQUIPMENT + E 

# SECTION II — HAZARDOUS INGREDIENTS

——INGREDIENT—— MATERIAL DESCRIPTION	CAS#	% BY WEIGHT	TLV - PPM	(TWA) MG/M3	1 <b>/EL</b> /	VAPOR PRESS MMHG DEGF
CRYSTALLINE SILICA -suspected carcinogen	*14808-60-7	2.35*	Not Est*	.10*	Unk*	Unknown
2,2,4 TRIMETHYL PENTANE DIOL-1,3 MONOISOBUTYRATE	*25265774 *	1.38*	Not Est*	Not Est*	**************************************	1.00 @ 189.0
LEAD AS IN LEAD CHROMATE -suspected carcinogen	*7439-92-1	7.84*	Not Est*	.05*	ักษ์ เพลาะเร็ก	Unknown
CHROMIUM AS CR (VI) -known carcinogen	*7440-47-3	1.83*	Not Est*	.05*	Unk.*	Unknown

THIS PRODUCT CONTAINS HAZARDOUS COMPONENTS WHICH MAY BECOME AIRBORNE AND RESULT IN EXPOSURE WHEN REMOVED BY ABRASIVE BLASTING, SANDING, OR GRINDING. VENTILATE AND AVOID BREATHING DUSTS. \*

# SECTION III — PHYSICAL DATA

大批 [2][[2][4][4][4]

**BOILING RANGE:** 

HIGH 471.0 DF LOW 212.0 DF

VAPOR PRESSURE: VAPOR DENSITY:

SEE SECTION II LIGHTER THAN AIR

EVAPORATION RATE: WEIGHT PER GALLON: % VOLATILE BY VOLUME:

SLOWER THAN BUTYL ACETATE **11.5** mangal dalikan dalik kupat mengantangan dalaman dalam <mark>dalam kanad</mark>an di separa dal**ik 201** abah bengah pengan

% VOLATILE BY WEIGHT:

60.7 44.3

APPEARANCE - ODOR:

YELLOW LIQUID, AMMONIA ODOR

#### PH - SOLUBILITY: 8.5 - 9.5, DILUTABLE IN WATER \*\*\*\*\*\*\*\*\*

### SECTION IV — FIRE AND EXPLOSION HAZARD DATA OSHA-CLASS III-B DOT - NOT REGULATED

FLAMMABILITY CLASSIFICATION

EXTINGUISHING MEDIA: ( ) FOAM ( ) CO2

( ) DRY CHEMICAL (X) WATER FOG ( ) OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: MATERIALS WILL NOT SUSTAIN COMBUSTION UNLESS WATER HAS EVAPORATED. CLOSED CONTAINERS MAY EXPLODE FROM STEAM PRESSURE WHEN EXPOSED TO EXTREME HEAT.

SPECIAL FIRE FIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AS PROTECTION FROM HAZARDOUS COMBUSTION PRODUCTS.

### SECTION V — HEALTH HAZARD DATA

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: EXCESS INHALATION OF VOLATILIZED AMMONIA MAY PRODUCE HEADACHE, NAUSEA, IRRITATION TO RESPIRATORY TRACT. SKIN CONTACT MAY PRODUCE IRRITATION DUE TO SLIGHT ALKALINITY. PRESENCE OF VOLATILIZED AMMONIA COULD IRRITATE EYES. EXCESS INHALATION OF VOLATILIZED ETHYLENE GLYCOL MAY CAUSE IRRITATION OF THE NOSE AND THROAT WITH HEADACHE, NAUSEA, AND VOMITING. ETHYLENE GLYCOL CAN BE HARMFUL OR FATAL IF SWALLOWED. SEVERE KIDNEY DAMAGE FOLLOWS THE SWALLOWING OF LARGE AMOUNTS OF ETHYLENE GLYCOL. LIQUID, VAPOR, AND MIST MAY CAUSE EYE IRRITATION. CRYSTALLINE SILICA DUST CAN CAUSE UPPER RESPIRATORY IRRITATION AND IRRITATION TO EYES. PROLONGED OVEREXPOSURE TO SILICA DUST BY INHALATION MAY CAUSE DELAYED LUNG INJURY/DISEASE (SILICOSIS). ON THE BASIS OF INITIAL EXPERIMENTAL TESTS IN ANIMALS AND LIMITED EPIDEMIOLOGICAL STUDIES IN HUMAN POPULATIONS, THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED THAT THERE IS LIMITED EVIDENCE FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA TO HUMANS. RATS EXPOSED TO TITANIUM DIOXIDE DUST AT 250 MG/M³ DEVELOPED LUNG CANCER: HOWEVER, SUCH EXPOSURE LEVELS ARE NOT ATTAINABLE IN THE WORK PLACE. <CHRONIC EFFECTS> LEAD IS A LUNG CANCER; HOWEVER, SUCH EXPOSURE LEVELS ARE NOT ATTAINABLE IN THE WORK PLACE. <CHRONIC EFFECTS> LEAD IS A CUMULATIVE POISON. CHRONIC OVER-EXPOSURE TO LEAD VIA INHALATION OR INGESTION MAY RESULT IN SEVERE DAMAGE TO BLOOD-FORMING, CENTRAL NERVOUS, URINARY, AND REPRODUCTIVE SYSTEMS. LEAD CROSSES THE PLACENTAL BARRIER AND

POSES RISKS TO DEVELOPING FETUSES, SYMPTOMS OF OVER-EXPOSURE TO LEAD INCLUDE ANEMIA, ABDOMINAL DISCOMFORT, METALLIC TASTE, LOSS OF APPETITE, HEADACHE, INSOMNIA, MUSCLE PAIN AND WEAKNESS, FINE TREMORS, NUMBNESS, NER-VOUS IRRITABILITY. LEAD CHROMATE IS A SUSPECTED HUMAN CARCINOGEN.

PRIMARY ROUTE(S) OF EXPOSURE: (X) DERMAL (X) INHALATION () INGESTION:

EMERGENCY AND FIRST AID PROCEDURES: FOR IRRITATION DUE TO INHALATION, REMOVE TO FRESH AIR. FOR EYE CONTACT, FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. IN CASE OF INGESTION, DRINK 1-2 GLASSES OF WATER TO DILUTE. DO NOT INDUCE VOMITING. CONSULT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: ETHYLENE GLYCOL MAY AGGRAVATE EXISTING KIDNEY DISEASE. INDIVIDUALS WITH PULMONARY AND/OR RESPIRATORY DISEASE INCLUDING, BUT NOT LIMITED TO, ASTHMA AND BRONCHITIS SHOULD NOT BE EXPOSED TO SHICA DISTS.

SHOULD NOT BE EXPOSED TO SILICA DUSTS.

### SECTION VI — REACTIVITY DATA

STABILITY: () UNSTABLE (X) STABLE
HAZARDOUS POLYMERIZATION () MAY OCCUR (X) WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: THE DRY PAINT FILM CAN BURN AND PRODUCE ONE OR MORE OF THE FOLLOWING:
CARBON DIOXIDE, CARBON MONOXIDE, HYDROGEN CHLORIDE, AND/OR OXIDES OF NITROGEN.

CONDITIONS TO AVOID: EXCESSIVE HEAT.

INCOMPATIBILITY (MATERIALS TO AVOID): NONE REASONABLY FORESEEABLE.

# SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEARING PROTECTIVE GLOVES, WIPE UP LIQUID MATERIAL WITH ABSORBENT CLOTH.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

#### SECTION VIII — SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IN RESTRICTED VENTILATION AREAS - APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO REMOVE PARTICULATES AND VAPOR.

VENTILATION: PROVIDE AIR MOVEMENT TO REMOVE EXCESS VAPORS

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT. EYE PROTECTION: SAFETY GLASSES.

OTHER PROTECTIVE EQUIPMENT: NONE

Kasa Minin

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM.

### SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE IN EXCESSIVE HEAT (ABOVE 120 DF). USE WITH ADEQUATE VENTILATION.

OTHER PRECAUTIONS: AVOID CONTACT WITH EYES.

## SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CAS#	CHEMICAL NAM	<b>VE</b>	PERCENT BY WEIGHT	
7439-92-1 7440-47-3	LEAD CHROMIUM		7.84% 1.83%	

MATERIAL SAFETY DATA SHEET GROUP 22 includes the following:

06-643-XX

06-645-XX

FOR COATINGS, RESINS, AND RELATED MATERIALS DATE OF PREPARATION - 11/1/91

MANUFACTURER'S NAME:

**COLUMBIA PAINT COMPANY** NORTH 112 HAVEN STREET P. O. BOX 4569

ADDRESS: ADDRESS: CITY, STATE:

SPOKANE, WA 99202

EMERGENCY TELEPHONE NO.

DAY: 509-535-9741 DAY: 509-535-9741

NIGHT: 1-800-424-9300

INFORMATION TELEPHONE NO.

NIGHT: 1-800-424-9300

SECTION I — PRODUCT IDENTIFICATION

MANUFACTURER'S CODE IDENTIFICATION: SEE ABOVE

PRODUCT CLASS: UREA-FORMALDEHYDE MODIFIED ALKYD RESIN COATING TRADE NAME: SEE TABLE OF CONTENTS

HEALTH - 3 **HMIS INFORMATION\*\*** 

FLAMMABILITY - 3

· PERSONAL PROTECTIVE EQUIPMENT - H **REACTIVITY - 1** 

SECTION II - HAZARDOUS INGREDIENTS

	SECT		ZAIIDUUU	HIGHEDIE	1440	VAROR	
INGREDIENT MATERIAL DESCRIPTION	CAS#	% BY WEIGHT	TLV PPM	- (TWA) MG/M3	¥EL	VAPOR PRESS MMHG	DEG F.
AMORPHOUS SILICA	*7631-86-9	. 1.50-3.07*	Not Est*	10.00*	Unk.	Unkno	own
TOLUENE	*108883	22.10-22.46*	100.00*	375.00*	1.2*	22.00 @	68.0
FORMALDEHYDE -suspected carcinogen	*000050000	.33*	1.00*	1.50*	7.0*	Unkno	own ,
ETHANOL	*64175	14.94-15.19*	1000.00*	1900.00*	3.3*	40.00 @	68.0
ISOPROPANOL	*67630	4.14-4.21*	400.00*	980.00*	25.0*	33.00 @	68.0
XYLENE (MIXED ISOMERS)	*1330-20-7	7.46-7.58*	100.00*	434.00*	1.0*	6.00 @	68.0
ETHYL BENZENE	*100414	1.53-1.55*	100.00*	435.00*	1.2*	10.00@	78.6

THIS PRODUCT CONTAINS HAZARDOUS COMPONENTS WHICH MAY BECOME AIRBORNE AND RESULT IN EXPOSURE WHEN REMOVED BY ABRASIVE BLASTING, SANDING, OR GRINDING, VENTILATE AND AVOID BREATHING DUSTS.

### SECTION III — PHYSICAL DATA

**BOILING RANGE:** VAPOR PRESSURE: VAPOR DENSITY: HIGH 284.0 DF LOW 148.0 DF SEE SECTION II

HEAVIER THAN AIR SLOWER THAN BUTYL ACETATE

**EVAPORATION RATE** WEIGHT PER GALLON: % VOLATILE BY VOLUME:

8.2 - 8.3 60.6 - 61.1

% VOLATILE BY WEIGHT: 51.3 - 52.1

# SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION OSHA-CLA LOWEST FLASHPOINT T.C.C. 40.0 DF LOWEST FLASHPOINT T.C.C. (X) FOAM (X) DRY CHEMICAL (X) DRY CHEMICAL OSHA-CLASS IB DOT - FLAMMABLE LIQUID

F LOWER EXPLOSION LEVEL (LEL) 1.09

M (-) ALCOHOL FOAM (X) CO2

CHEMICAL () WATER FOG () OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP AWAY FROM HEAT, SPARKS, AND FLAME. VAPORS MAY IGNITE EXPLOSIVELY.
VAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEAT-VAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILDUP OF VAPORS. EXTINGUISH ALL PILOT LIGHTS, AND TURN OFF HEATERS, NON-EXPLOSION PROOF ELECTRICAL EQUIPMENT, AND ALL SOURCES OF IGNITION UNTIL VAPORS ARE GONE. IN CLOSED CONTAINERS, PRESSURE BUILDUP MAY OCCUR DUE TO HEAT EXPOSURE. DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION. (SEE SECTION VI).

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. HOWEVER, WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP. FULL PROTECTIVE EQUIPMENT RECOMMENDED, INCLUDING SELF-CONTAINED BREATHING APPARATUS, TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS.

### SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMP-ECTS OF OVEREXPOSURE: OVEREXPOSURE VIA INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS RANGING FROM HEADACHES, DIZZINESS, LOSS OF COORDINATION, TO UNCONSCIOUSNESS. DELIBERATELY BREATHING CONCENTRATED SOLVENT VAPOR (GLUE SNIFFING) CAN RESULT IN PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR DEATH. INGESTION MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND/OR DIARRHEA. EYE CONTACT CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. PROLONGED OR REPEATED SKIN CONTACT WILL DRY AND DEFAT THE SKIN, LEADING TO IRRITATION AND DERMATITUS. <CHRONIC EFFECTS> REPEATED OVEREXPOSURE TO SOLVENT VAPORS MAY RESULT IN ONE OR MORE OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, BLOOD, LIVER, AND/OR KIDNEY INJURY, HEARING LOSS. FORMALDEHYDE IS A SUSPECTED HUMAN CARCINOGEN. PRIMARY ROUTES OF ENTRY: (X) - DERMAL (X) - INHALATION ( ) - INGESTION
EMERGENCY AND FIRST AID PROCEDURES: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSURE IMMEDIATELY; CALL A PHYSICIAN. IF
BREATHING IS IRREGULAR OR STOPPED, START RESUSCITATION, ADMINISTER OXYGEN. IF INGESTED, DO NOT INDUCE VOMITING;
CALL A PHYSICIAN. IF SPLASHED INTO THE EYES, FLUSH EYES WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SUBSIDES; CONSULT A PHYSICIAN AS MAY BE REQUIRED. IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WARM WATER.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING SKIN DISORDERS, CHRONIC RESPIRATORY DISEASES.

# SECTION VI — REACTIVITY DATA

(X) - STABLE

STABILITY: ()-UNSTABLE (X)-STABLE
HAZARDOUS POLYMERIZATION ()-MAY OCCUR (X)-WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: FUMES PRODUCED WHEN HEATED TO DECOMPOSITION, SUCH AS IN WELDING, MAY INCLUDE ONE OR MORE OF THE FOLLOWING: CARBON DIOXIDE, CARBON MONOXIDE, ACROLEIN, HYDROGEN CHLORIDE, OXIDES OF NITROGEN.

CONDITIONS TO AVOID: HIGH TEMPERATURES OR DIRECT HEATING.

INCOMPATIBILITY (MATERIALS TO AVOID): OXYGEN AND STRONG OXIDANTS, STRONG ACIDS, STRONG BASES, AND AMINES. WILL DISSOLVE OR SOFTEN SOME PLASTICS AND RUBBER.

# SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, AND ELECTRICAL, STATIC, OR FRICTIONAL SPARKS), VENTILATE AREA, CONTAIN AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. REFER TO OTHER HAZARD CAUTIONS CONTAINED ON THIS SHEET BEFORE ATTEMPTING CLEAN-UP. WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

# SECTION VIII — SAFE HANDLING AND USE INFORMATION

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RESPIRATORY PROTECTION: IN OUTDOOR, OPEN AREAS OR IN RESTRICTED VENTILATION AREAS, USE APPROVED CHEMICAL/ME-CHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE GAS AND VAPOR. TLV'S MUST NOT BE EXCEEDED. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATORS OR HOODS.

VENTILATION: ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATIONS. POCKETS OF HEAVY AND/OR FLAMMABLE VAPOR MUST NOT BE PERMITTED TO FORM. VENTILATION AND RESPIRATORY PROTECTION MUST BE ADEQUATE TO PREVENT THE TLV'S OF HAZARDOUS INGREDIENTS FROM BEING EXCEEDED.

PROTECTIVE GLOVES: REQUIRED FOR PROLONGED OR REPEATED CONTACT.
EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: USE PROTECTIVE APRON AND CLOTHING.
HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR USING WASHROOM. SMOKE IN SMOKING AREAS ONLY.

# SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME. NO SMOKING OR OPEN LIGHTS.

OTHER PRECAUTIONS: AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. STORE IN SEALED CONTAINERS AWAY FROM SPACE HEATING EQUIPMENT.

# SECTION X — REGULATORY INFORMATION

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

	CAS#	CHEMICAL NAME	PERCENT BY WEIGHT		·
***************************************	108-88-3 50-00-0 1330-20-7 100-41-4	TOLUENE FORMALDEHYDE XYLENE (MIXED ISOMERS) ETHYL BENZENE	22.10 - 22.46% .33% 7.46 - 7.58% 1.53 - 1.55%	• •	