# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

**SDS #:** 308.80

Revision Date: September 22, 2014

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# 2,4-Dinitrophenylhydrazine

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word

**DANGER** 

Pictograms

#### **SECTION 2 — HAZARDS IDENTIFICATION**

Hazard class: Flammable solids (Category 1). Flammable solid (H228). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
2,4-Dinitrophenylhydrazine	119-26-6	$C_6H_6N_3O_2$	198.14	65-70%
Water	7732-18-5	$H_2O$	18.01	30-35%
Synonyms: 2,4-DNPH				

#### **SECTION 4 — FIRST AID MEASURES**

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell (P302+P301+P312).

#### **SECTION 5 — FIRE FIGHTING MEASURES**

Flammable solid.

NFPA CODE

When heated to decomposition, may emit toxic fumes.

None established

In case of fire: Use tri-class dry chemical fire extinguisher (P370+P378).

#### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

Ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

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#### **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines and amides. Ground or bond container and receiving equipment (P240). Use explosion-proof electrical and ventilating equipment (P241).

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash thoroughly after handling (P264).

#### **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Reddish-orange moist solid. Odorless.

Contains 30-35% water as stabilizer. Very slightly soluble in cold

water.

Melting point: 194-200°C

#### **SECTION 10 — STABILITY AND REACTIVITY**

Avoid heat, sunlight, and ignition sources. Reacts with strong oxidizing agents and carbonyl compounds. Do not allow to dry out. Shelf life: Good, do not allow to dry out.

#### **SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Eye, skin, and respiratory tract irritation. May cause

allergic skin reaction. Cyanosis if ingested.

Chronic effects: Methemoglobin resulting in cyanosis.

Target organs: Lungs.

ORL-RAT LD<sub>50</sub>: >500 mg/kg

IHL-RAT LC<sub>50</sub>: N.A.

SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

# **SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

## <u>SECTION 13 — DISPOSAL CONSIDERATIONS</u>

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #5 is one option.

#### **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: 2,4-Dinitrophenylhydrazine. Hazard class: 4.1. UN number: UN1325.

N/A = Not applicable

#### **SECTION 15 — REGULATORY INFORMATION**

TSCA listed.

#### **SECTION 16 — OTHER INFORMATION**

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Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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