ISO9001 - 2000 certified

Qorpak

# Material Safety Data Sheet

## Alkaline iodide azide solutions

## Section 1 - Chemical Product and Company Identification

**MSDS Name:**

Alkaline iodide azide solutions

**Catalog Numbers:**

Q07601, Q09601

**Synonyms:**

**Company Identification:**

Qorpak
1195 Washington Pike
Bridgeville, PA 15017

**Company Phone Number:**

(412) 257-3100

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

## Section 2 - Composition, Information on Ingredients

| CAS# | Chemical Name: | Percent |
|---|---|---|
| 7732-18-5 | Water | balance |
| 1310-73-2 | Sodium hydroxide | 48-50 |
| 7681-11-0 | Potassium iodide | 15-75 |
| 26628-22-8 | Sodium azide | 1-2 |

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

*Appearance: colorless*
*Caution! Corrosive. May cause eye irritation and possible burns.*
*Target Organs: none known.*

### Potential Health Effects

**Eye:**

May cause irritation, pain, blurred vision, possible burns, and conjunctivitis. Direct contact may cause corneal and episcleral damage.

**Skin:**

Exposure of the skin to the liquid or concentrated vapor produces sever and penetrating burns. Penetration may continue for several days.

**Ingestion:**

Ingestion will cause irritation to mucous membranes, gastrointestinal tract. Severe abdominal pain, coma and death are possible. Perforation of gastrointestinal tract can occur, even after several days.

**Inhalation:**

Inhalation may cause sore throat, coughing, irritation to respiratory tract.

**Chronic:**

Prolonged or repeated skin contact may cause dermatitis. Repeated or prolonged exposure may cause irritation to respiratory tract. Repeated or prolonged contact may cause conjunctivitis, corneal burns. Repeated ingestion may cause irritation and burning to gastrointestinal tract.

## Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once. Cover burns with loose sterile non-medicated bandages.

**Skin:**

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes. Cover burns with a dry sterile bandage (secure, not tight).

**Ingestion:**

Do NOT induce vomiting. Get medical aid at once. If victim is conscious, give 2-4 glasses of water to dilute alkali.

**Inhalation:**

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

**Notes to Physician:**

Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:**

Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, cool with flooding amounts of water.

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**

No information found.

**Flash Point:**

No information found.

**NFPA Rating:**

CAS# 7732-18-5: Not published.
CAS# 1310-73-2: Not published.
CAS# 7681-11-0: Not published.
CAS# 26628-22-8: Not published.

**Explosion Limits:**

Lower: Upper:

## Section 6 - Accidental Release Measures

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Neutralize spill with a weak acid such as vinegar or acetic acid. For soil spills, dig holding pit to contain spill and dike surface flow with barrier of soil, sandbags, or foamed concrete. Absorb liquid with fly ash or cement powder. For water spills, neutralize with dilute acid. For occupational spills, do not touch spilled material. Keep people away and isolate area. Stop leak if possible. Small spills can be absorbed with sand or other absorbent materials. Scoop up and place in suitable containers for proper disposal.

## Section 7 - Handling and Storage

**Handling:**

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing.

**Storage:**

Store at room temperature. Protect from heat and water reactive substance (sodium, oleum).

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Provide local exhaust or general dilution ventilation.

**Exposure Limits**

| Chemical Name: | ACGIH | NIOSH | OSHA |
|---|---|---|---|
| **Water** | None of the components are on this list. | None of the components are on this list. | None of the components are on this list. |
| **Sodium hydroxide** | None of the components are on this list. | None of the components are on this list. | 2 mg/m3 TWA; |
| **Potassium iodide** | None of the components are on this list. | None of the components are on this list. | None of the components are on this list. |
| **Sodium azide** | None of the components are on this list. | None of the components are on this list. | None of the components are on this list. |

**OSHA Vacated PELs**

### Personal Protective Equipment

**Eyes:**

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

### Respirators:

Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.
2000mg/M3 (KOH), 100ppm (NaN3)- supplied-air respirator with full facepiece, helmet or hood.
>2000mg/M3 (KOH), >100ppm (NaN3)- self-contained breathing apparatus with full facepiece.

## Section 9 - Physical and Chemical Properties

| | |
|---|---|
| **Physical State:** | Liquid |
| **Color:** | colorless |
| **Odor:** | odorless |
| **pH:** | alkaline |
| **Vapor Pressure:** | No information found. |
| **Vapor Density:** | No information found. |
| **Evaporation Rate:** | >1 (ether=1) |
| **Viscosity:** | No information found. |
| **Boiling Point:** | No information found. |
| **Freezing/Melting Point:** | No information found. |
| **Decomposition Temperature:** | No information found. |
| **Solubility in water:** | Soluble. |
| **Specific Gravity/Density:** | 1.5 |
| **Molecular Formula:** | No information found. |
| **Molecular Weight** | No information found. |

## Section 10 - Stability and Reactivity

### Chemical Stability:

Stable under normal temperatures and pressures.

### Conditions to Avoid:

Incompatible materials.

### Incompatibilities with Other Materials

Acids and their anhydrides, water reactive substances (e.g. sulfuric acid, sodium metal, potassium metal, calcium carbide).

### Hazardous Decomposition Products

Not known.

### Hazardous Polymerization

Has not been reported

## Section 11 - Toxicological Information

### RTECS:

CAS# 7732-18-5: ZC0110000.
CAS# 1310-73-2: WB4900000.
CAS# 7681-11-0: TT2975000.
CAS# 26628-22-8: VY8050000.

**LD50/LC50:**

CAS# 7732-18-5:
Oral, rat: LD50 = >90 mL/kg.
CAS# 1310-73-2:
No information found.CAS# 7681-11-0:
No information found.CAS# 26628-22-8:
Oral, mouse: LD50 = 27 mg/kg
Oral, rat: LD50 = 27 mg/kg
Skin, rabbit: LD50 = 20 mg/kg.

**Carcinogenicity:**

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 1310-73-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 7681-11-0: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 26628-22-8
ACGIH: A4 - Not Classifiable as a Human Carcinogen (as Sodium Azide and hydrozoic acid
California: Not listed.
NIOSH: Not listed.
NTP: Not listed.
OSHA: Not listed.
IARC: Not listed.

**Epidemiology:**

sodium hydroxide- sodium hydroxide solution is an irritant and corrosive to eye, skin, and mucous membranes. Mutagenic data RTECS. potassium iodide- iodide salts are skin, eye, mucous membrane irritants and skin sensitizers.

**Teratogenicity:**

**Reproductive:**

**Mutagenicity**

**Neurotoxicity**

## Section 12 - Ecological Information

No information found.

## Section 13 - Disposal Considerations

**Dispose of in accordance with federal, state, and local regulations.**

## Section 14 - Transport Information

### US DOT

| | |
|---|---|
| **Shipping Name:** | SODIUM HYDROXIDE SOLUTION |
| **Hazard Class:** | 8 |
| **UN Number:** | UN1824 |
| **Packing Group:** | PG II |

Qorpak

# Material Safety Data Sheet

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## Section 15 - Regulatory Information

### US Federal

#### TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.
CAS# 1310-73-2 is listed on the TSCA Inventory.
CAS# 7681-11-0 is listed on the TSCA Inventory.
CAS# 26628-22-8 is listed on the TSCA Inventory.

#### SARA Reportable Quantities (RQ)

CAS# 1310-73-2: final RQ = 1000 pounds (454 kg)
CAS# 26628-22-8: final RQ = 1000 pounds (454 kg)

#### CERCLA/SARA Section 313

This material contains Sodium azide (CAS# 26628-22-8, 1-2%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

#### OSHA - Highly Hazardous

None of the components are on this list.

### US State

#### State Right to Know

Sodium hydroxide can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.
Sodium azide can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

#### California Regulations

### European/International Regulations

#### Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.
CAS# 1310-73-2 is listed on Canada's DSL List.
CAS# 7681-11-0 is listed on Canada's DSL List.
CAS# 26628-22-8 is listed on Canada's DSL List.

#### Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.
CAS# 1310-73-2 is listed on Canada's Ingredient Disclosure List.
CAS# 7681-11-0 is listed on Canada's Ingredient Disclosure List.
CAS# 26628-22-8 is listed on Canada's Ingredient Disclosure List.

## Section 16 - Other Information

MSDS Creation Date: October 21, 1997
Revision Date: February 18, 2004

# Material Safety Data Sheet

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