

Material Safety Data Sheet



Alkaline Potassium Iodide Azide

Revised: 11/18/2011
Replaces: 11/17/2011
Printed: 08/10/2012

Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

CAROLINA
www.carolina.com

Section 1 - Product Description

Product Name: Alkaline Potassium Iodide Azide
Product Code(s): 65-2865, 18-1021
Size: Various
Chemical Name: N/A, product is a mixture
CAS Number: See Section 3
Formula: See Section 3
Synonyms: Potassium Iodide Azide
Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec

Section 2 - Hazard Identification

Emergency Overview: Harmful in contact with skin. Causes severe burns. May impair fertility.

Potential Health Effects:

Eyes: Causes severe burns and eye damage upon direct contact. Vapor is irritating.

Skin: May cause severe irritation or chemical burns.

Ingestion: May severely irritate or damage digestive tract.

Inhalation: May severely irritate or damage mucous membranes and respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Potassium Hydroxide (CAS# 1310-58-3) >30%; Sodium Azide (CAS# 26628-22-8) < 1%; Potassium Iodide (CAS# 7681-11-0) < 12%; Water (CAS# 7732-18-8) (balance)

TLV units: Potassium Hydroxide - ACGIH-TLV: 2 mg/m³

Sodium Azide - ACGIH-TLV: 0.3 ppm (skin) as NaN₃

Potassium Iodide - ACGIH-TLV: N/A

Water - ACGIH-TLV: N/A

PEL units: Potassium Hydroxide OSHA-PEL: 2 mg/m³

Sodium Azide - OSHA-PEL: 1 ppm (skin) as HN₃

Potassium Iodide - OSHA-PEL: N/A

Water - OSHA-PEL: N/A

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Ingestion - If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A

NFPA Rating:

Health: 3

Fire: 0

Reactivity: 2

Extinguisher Media: Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A N/A

Autoignition Temperature: N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Heat, shock, or contact with other materials may cause fire or explosion

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution. Keep container tightly closed in a cool, well-ventilated place.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes

Mechanical(General): Yes

Special: No

Other: No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.

Eye Protection: Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: N/A

Boiling Point: approx 100°C (212°F)

Vapor Density(Air=1): approx. 0.62

Percent Volatile by Volume: N/A

Solubility in Water: Soluble

Melting Point: N/A

Vapor Pressure: approx. 2.3

Specific Gravity (H₂O=1): 1.5

Evaporation Rate (BuAc=1): N/A

Appearance and Odor: Colorless, odorless solution.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid:

Incompatibility (Materials to Avoid): Acids, Reducing agents, Metal Salts, Metals,

Hazardous Decomposition Products: Hydrogen Gas,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: no data available

Effects of Overexposure:

Acute: See Section 2

Chronic: Teratogen data cited.

Conditions Aggravated by Overexposure: N/A

Target Organs: Skin, Eyes,

Primary Route(s) of Entry: Inhalation, ingestion, eye or skin contact.

Section 12 - Ecological Data

EPA Waste Numbers: N/A

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1719

CAUSTIC ALKALI LIQUID, N.O.S (SODIUM HYDROXIDE; SODIUM AZIDE SOLUTION)

Class 8

PG II

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List:

Sodium Hydroxide - No

Sodium Azide - Yes

Potassium Iodide - No

Water - No

Chemical Category:

Sodium Hydroxide - No

Sodium Azide - Yes

Potassium Iodide - No

Water - No

CERCLA Section 103 RQ(lb.): Sodium Hydroxide - 1000 lbs (454 kg)

Sodium Azide - 1000 lbs

Potassium Iodide - No

Water - No

RCRA Section 261.33: Sodium Hydroxide - No

Sodium Azide - Yes

Potassium Iodide - No

Water - No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number	Chemical Services Abstract Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
IARC	International Agency of Research on Cancer
N/A	Not Available
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act