



Material Safety Data Sheet

Alkaline iodide azide solutions

Section 1 - Chemical Product and Company Identification

MSDS Name:

Alkaline iodide azide solutions

Catalog Numbers:

LC10670, LC10690

Synonyms:**Company Identification:**

LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

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: Noneknown.

Potential Health Effects

Eye:

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



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Skin:

Exposure of the skin to the liquid or concentrated vapor produces severe 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 unconscious, 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.



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Explosion Limits:

Lower: Upper:

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Neutralizes 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/m ³ 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. A 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.



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Respirators:

Firefighting--anyself-containedbreathingapparatuswithfullfacepieceoperatedinpressure-demandmode.
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:

Stableundernormaltemperaturesandpressures.

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.



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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=27mg/kg

Oral,rat:LD50=27mg/kg

Skin,rabbit:LD50=20mg/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-NotClassifiableasaHumanCarcinogen(asSodiumAzideandhydrozoicacid

California:Notlisted.

NIOSH: Not listed.

NTP:Notlisted.

OSHA:Notlisted.

IARC:Notlisted.

Epidemiology:

Sodiumhydroxide-sodiumhydroxidesolutionisanirritantandcorrosivetoeye,skin,andmucousmembranes.

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,andlocalregulations.

Section 14 - Transport Information

US DOT

Shipping Name: SODIUM
HYDROXIDE
SOLUTION

Hazard Class: 8

UN Number: UN1824

Packing Group: PG II



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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: September 11, 2008



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