



MSDS
Material Safety Data Sheet

PO Box 329 • 802 Washington Avenue • Chestertown, MD 21620 • USA
Telephone Number For Information 410-778-3100

24 Hour Emergency Number (CHEM-TEL): USA, Canada, Puerto Rico 800-255-3924;
Outside North American continent 813-248-0585 (call collect)

1. Product Identification

Product Code:	7166	Manufactured By:	LaMotte Company
Product Description:	Alkaline Potassium Iodide Azide		802 Washington Avenue Chestertown, MD 21620

2. Composition/Information on Ingredients

Hazardous	Name	CAS #	%	OSHA PEL	ACGIH TLV
Yes	Potassium Hydroxide	1310-58-3	60 - 70	C 2 mg/cubic m	C 2 mg/cubic m
Yes	Sodium Azide	26628-22-8	<1	NIOSH(REL): C 0.1ppm (skin) as HN3	C 0.3 ppm (skin) as NaN3
Yes	Potassium Iodide	7681-11-0	14	N/E	N/E
No	Water	7732-18-8	To 100%		

3. Hazards Overview

Primary Route of Entry: Skin
Poison! Danger! Corrosive. Causes severe burns to eyes and skin. Harmful if inhaled. May be fatal if swallowed. Sodium Azide component is highly toxic.

HMIS Hazard: (Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least)
Health: 3 Flammability: 0 Reactivity: 2

Carcinogenicity: None

Other Health Related Comments:

4. First Aid Measures

- Eye Contact:** Immediately flush with water for 15 minutes. Get medical attention immediately.
- Skin Contact:** Immediately flush with water while removing affected clothing and rinse skin thoroughly for 15 minutes. Consult physician.
- Ingestion:** Do not induce vomiting. Rinse out mouth, drink plenty of water and call a doctor immediately.
- Inhalation:** Remove to fresh air.

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Azide

5. Fire Fighting Measures

Flash Point: N/A **LEL:** N/A **UEL:** N/A

Fire Rating

Extinguishing Media: Not a fire hazard

Special Fire Fighting Procedures: Wear self contained breathing apparatus and protective clothing to prevent inhalation and contact with eyes.

Hazardous Combustion and/or Decomposition Products: Hydrogen gas

Unusual Fire & Explosion Hazard: Violent exothermic reaction occurs with water. May produce enough heat to ignite combustibles. Can react with metals to produce hydrogen, forming explosive mixture with air.

6. Accidental Release Measures

Wear gloves and eye protection. Neutralize by carefully and slowly adding dilute hydrochloric acid (conc. 6M or less) to pH 7 or 8. Collect waste liquid. Dispose of collected liquid as hazardous waste as described in Section 13.

7. Handling & Storage

Store in cool, ventilated area away from strong acids and other incompatible materials.

8. Exposure Controls/Personal Protection

Ventilation

Use with adequate ventilation.

Protection When Handling

Gloves Eye Protection Lab Coat

Work/Hygienic Practices: Avoid contact with skin and clothing. Use Neoprene gloves, goggles, face shield, protective clothing. Neutralization of waste quantities of #7166 should be done in a fume hood or with good ventilation. Addition of strong acid may generate a small amount of hydrazoic acid from the sodium azide. (Hydrazoic acid is harmful to breathe).

9. Physical & Chemical Properties

Appearance:	Colorless Clear Liquid	Boiling Point:	Unknown
		Melting Point:	N/A
		pH:	14
Odor:	None	Vapor Density:	Unknown
Solubility in Water:	Soluble	Vapor Pressure:	Unknown

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Azide**

10. Stability & Reactivity

Stable: Yes
Conditions to Avoid: Heat
Materials to Avoid: Finely powdered metals and metal salts, strong acids and reducing agents.

Hazardous Decomposition Products: Hydrogen gas, hydrazoic acid.

11. Toxicological Information

oral rat LD50: 365 mg/kg for potassium hydroxide; oral rat LD50: 27 mg/kg for sodium azide solid.

Target Organs: Skin Eyes Corrosive to all body parts

12. Ecological Information

Information not Available

13. Disposal Considerations

Small amount <25 mL (of #7166) --Flush neutralized waste to drain with water. Large amount--Sodium azide can react with metal--such as copper pipes--to form shock or friction sensitive metal azides (explosive). Dispose of larger amounts as hazardous waste—not to sewers and drains. Follow federal, state and local regulations.

14. Transport Information

Domestic

Proper Shipping Name: CORROSIVE LIQUIDS, TOXIC, N.O.S. (Potassium Hydroxide/Sodium Azide solution)
UN Hazard Class/Div: 8, 6.1
UN 2922
UN Packing Group: II

International

Proper Shipping Name: CORROSIVE LIQUID, TOXIC, N.O.S. (Potassium Hydroxide/Sodium Azide solution)
UN Hazard Class/Div: 8, 6.1
UN 2922
UN Packing Group: II

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Azide**

15. Regulatory Information

Chemical Inventory Status

Ingredient	USA	Europe	---Canada---		Australia	Japan
	TSCA	EC	DSL	NDSL		
Potassium Hydroxide (1310-58-3)	Yes	Yes	Yes	No	Yes	Yes
Sodium Azide (26628-22-8)	Yes	Yes	Yes	No	Yes	Yes
Potassium Iodide (7681-11-0)	Yes	Yes	Yes	No	Yes	Yes

Water

Federal, State, & International Regulations

Ingredient	---SARA 302---		----- SARA 313 -----			RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category	CERCLA		
Potassium Hydroxide (1310-58-3)	No	No	No	No	1000	No	No
Sodium Azide (26628-22-8)	1000	500	Yes	No	1000	P105	No
Potassium Iodide (7681-11-0)	No	No	No	No	No	No	No

Ingredient	----- SARA 311/312 -----			----- Australia -----		This MSDS is WHMIS Compliant
	Hazard Categories			Hazchem Code	Poison Schedule	
Potassium Hydroxide (1310-58-3)	Acute: Yes Pressure: No	Chronic: Yes Reactivity: Yes (Pure/Solid)	Fire: No	2R	S6	
Sodium Azide (26628-22-8)	Acute: Yes Pressure: No	Chronic: No Reactivity: Yes (Pure/Solid)	Fire: Yes	2X	None allocated	
Potassium Iodide (7681-11-0)	Acute: Yes Pressure: No	Chronic: Yes Reactivity: No (Pure/Solid)	Fire: No	None allocated	None allocated	
For reagent #7166 liquid mixture, taken as a whole	Acute: Yes Pressure: No	Chronic: Yes Reactivity: Yes	Fire: No			Yes

16. Other Information

Prepared By: IP

Revised: 4/14/2005