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**
Product Description: Alkaline Potassium Iodide Azide

Manufactured By: LaMotte Company
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: See Section 11, Toxicity

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.

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

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.
Sodium azide is highly toxic by ingestion.
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

Product Code: 7166 **Product Description:** Alkaline Potassium Iodide Azide

15. Regulatory Information

Chemical Inventory Status

Ingredient	USA TSCA	Europe EC	---Canada--- DSL	NDSL	Australia	Japan
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---- RQ	TPQ	-------- SARA 313 --------- Listed	Chemical Category	CERCLA	RCRA 261.33	TSCA 8(D)
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 ------ Hazard Categories	---------- Australia ---------- Hazchem Code	Poison Schedule	This MSDS is WHMIS Compliant
Potassium Hydroxide (1310-58-3)	Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: Yes (Pure/Solid)	2R	S6	
Sodium Azide (26628-22-8)	Acute: Yes Chronic: No Fire: Yes Pressure: No Reactivity: Yes (Pure/Solid)	2X	None allocated	
Potassium Iodide (7681-11-0)	Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: No (Pure/Solid)	None allocated	None allocated	
For reagent #7166 liquid mixture, taken as a whole	Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: Yes	2R	S6	Yes

16. Other Information

Australia: This product is classified as a hazardous substance according to the criteria of ASCC (based upon a risk assessment according to ASCC/NOHSC criteria).

Prepared By: IP
Revised: 12/06/2007