MATERIAL SAFETY DATA SHEET

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1. PRODUCT IDENTIFICATION

Alkaline Potassium Iodide Azide *Code Nr.* **7166**

2. HAZARDOUS INGREDIENTS

NAME	CAS #	TSCA #	%	PEL	TLV
Potassium Hydroxide	1310-58-3		60 - 70	C 2 mg/cubic m	C 2 mg/cubic m
^ Sodium Azide	26628-22-8		<1	C 0.1 ppm (skin) as HN3	C 0.3 mg/cubic m as NaN3
Potassium Iodide	7681-11-0		14	N/E	N/E

3. NON-HAZARDOUS INGREDIENTS EXCEPT WATER (7732-18-5)

NAME	CAS #	%
Water to 100%		

4. PHYSICAL DATA

Appearance: Clear Colorless Liquid

Solubility in Water: Soluble	*Odor:* None	*Boiling Point:* Unknown	*Melt. Point:* N/A
Vapor Pressure: Unknown	*Vapor Density:* Unknown	*pH:* 14	

5. FIRE AND EXPLOSION DATA

Flash Point (method used) N/A | *Flammable Limit: LEL:* N/A | *UEL:* N/A

Extinguishing Media: Not a fire hazard

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

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

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 mix with air.

6. REACTIVITY DATA

Stability:
☒ *Stable*
☐ *Unstable*

Conditions to avoid: Heat

Incompatibility (Materials to avoid):
Strong acids, metals

Hazardous Decomposition Products: Hydrogen gas

7. HEALTH HAZARD DATA

Toxicity: orl rat LD50: 365 mg/kg for potassium hydroxide; 27 mg/kg for sodium azide solid

Primary Route of Entry: ☐ *Inhalation* ☒ *Skin* ☐ *Ingestion* ☐ *N/A*

Carcinogenicity: ☒ *None* ☐ *NTP* ☐ *OSHA* ☐ *IARC*

Other Health Related Comments:

Target Organs: Corrosive to all body parts, Eyes, Skin,

Signs and symptoms of exposure:
Severe burns, may be fatal if swallowed

Medical Condition Aggravated by Exposure: N/A

8. EMERGENCY FIRST AID PROCEDURES

Eye Contact: Immediately flush with water for 15 minutes. Get medical attention immediately.

Ingestion: Do not induce vomiting. Rinse out mouth, drink plenty of water and call a doctor immediately.

Inhalation:
Remove to fresh air.

Skin Contact:
Immediately flush with water while removing affected clothing and rinse skin thoroughly for 15 minutes. Consult physician.

9. SPILL AND DISPOSAL PROCEDURES

Spill and Leak:
Neutralize by carefully and slowly adding dilute hydrochloric acid (conc. 6M or less) to pH 7. Collect waste liquid. Dispose of as follows:

Disposal:
Small amt.<25 mL -Flush neutralized waste to drain with water. Large amt.-Sodium azide can react with metal--such as copper pipes--to form shock or friction sensitive metal azides (explosive). Dispose of larger amts. as hazardous waste, according to federal, state and local regulations.

10. PRECAUTIONARY MEASURES

In Handling: ☒ *Gloves* ☒ *Eye Protection* ☐ *N/A* ☒ *Other:* Lab Coat

Ventilation ☒ *Normal* ☐ *Mechanical* ☐ *Respiratory Protection*

Work/Hygienic Practices: Avoid contact with skin and clothing.

11. SPECIAL PRECAUTIONS

Store away from incompatible items (acids, metals).

DATE: 3/1/02

The above information is believed to be correct but does not claim to be all inclusive and should be used only as a guide.

^ This is a toxic chemical subject to reporting requirements of section 313 of EPCRA and 40CFR372.