

Issuing Date 12/16/2010	Revision Date 2/25/2013	Revision Number 1
1. F	PRODUCT AND COMPANY IDENTIFICATION	
Product Name	ALK. POTASSIUM IODIDE AZIDE	
Product Code(s)	7166	
Recommended Use	Laboratory chemicals. Industrial (not for food or food contact u	use). Test kit reagent.
Company	LaMotte Company, Inc. 802 Washington Avenue P.O. Box 329 Chestertown, MD 21620 USA	
Emergency Telephone Number	24 Hour Emergency Number (CHEM-TEL): USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585	5
	2. HAZARDS IDENTIFICATION	
DANGER! POISON!	Emergency Overview Corrosive quid and mist can cause severe burns to all body tissue May be fatal if inhaled or swallowed Water reactive Physical State Liquid	Odor Odorless
OSHA Regulatory Status	This material is considered hazardous by the OSHA Hazard C CFR 1910.1200). Safety information is given for exposure to the considers exposure to the chemical if user has direct eye and	communication Standard (29 he reagent as sold and
Potential Health Effects Principle Routes of Exposure	Inhalation, skin contact, and ingestion.	
Acute Toxicity Eyes Skin Inhalation Ingestion	Corrosive to the eyes and may cause severe damage includin Corrosive. Contact with skin causes irritation to severe burns. and severe skin burns. Harmful if absorbed through skin. Poison - may be fatal if inhaled. Inhalation of corrosive mist me headache, dizziness, and weakness for several hours. Pulmo tightness in the chest, shortness of breath, bluish skin, decrea increased heart rate. Depending on exposure, the effects from can vary from mild irritation to serious damage to respiratory to Toxic if swallowed. Corrosive. Can cause immediate pain and esphogus and GI tract. May cause nausea, vomiting, and dial death. Probable lethal dose of Potassium thiocyanate:between	Can cause redness, pain, ay cause coughing, choking, onary edema may occur with sed blood pressure, and n inhalation of corrosive mists ract. burning in the mouth, throat, rrhea, and in severe cases
Chronic Effects	solution will contain 10grams Potassium thiocyanate). Prolonged exposure may cause chronic effects.	
Main Symptoms	Prolonged contact has a destructive effect on tissue.	

Aggravated Medical Conditions

Hypersensitivity may occur in those with preexisting skin disorders. Respiratory disorders. Preexisting eye disorders.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name		CAS-No	Weight %
Sodium azide	26628-22-8 1.05		1.05
Potassium iodide	7681-11-0 15		15
Water		7732-18-5	to 100%
Potassium hydroxide		1310-58-3	70
	4. F	IRST AID MEASURES	
General Advice		eyes, on skin, or on clothing. Do not brocare and transport of a seriously injured	
Eye Contact	Immediately flush eyes with gentle stream of water for at least 15 minutes, occasio lifting upper and lower eyelids. Call a physician immediately.		
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removin all contaminated clothing and shoes. Remove and wash contaminated clothing before re-use. Immediate medical attention is required.		
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel. Call a physician immediately.		
Ingestion	DO NOT INDUCE VOMITING. Drink large quantity of water. Immediate medical attentior required. Never give anything by mouth to an unconscious person.		
Protection of First-aiders	Use personal protective equipment. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.		the substance; induce artificial
	5. FIR	E-FIGHTING MEASURES	

Flammable Properties	able Properties		Not flamma	ble.	
Flash Point		1	Not applica	ble	
Suitable Extinguishing	ble Extinguishing Media		Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Specific Hazards Arisir Contact with most metals	ng from the Chemical s causes the formation of	explosive and fla	ammable h	ydrogen gas. React	vigorously with water.
NFPA	Health Hazard 3	Flammability	0	Stability 1	Physical and Chemical Hazards W
HMIS	Health Hazard 0	Flammability	0	Stability 0	nazarus w
	6. ACCIE	DENTAL RE	LEASE	MEASURES	
Personal Precautions		lequate ventilatio protective equipm			s, and inhalation of vapors. Use

 Methods for Containment
 Soak up with inert absorbent material, containerize, and hold for disposal. Do not flush to sewer.

 Methods for Cleaning Up
 Neutralize spills with acid such as acetic, hydrochloric or sulfuric, absorb with vermiculite or other inert substance, and package in a suitable container for disposal. Prevent product from entering drains.

 7. HANDLING AND STORAGE

 Handling
 Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.

Storage

Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from heat, moisture, and incompatibles. Keep away from metals and organic halogens. Ensure that leaks or spills cannot reach drains, sewers or surface waters. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium azide 26628-22-8	None Known	None Known	Ceiling: 0.1 ppm Ceiling: 0.3 mg/m ³
Potassium iodide 7681-11-0	TWA: 0.01 ppm	None Known	None Known
Water 7732-18-5	None Known	None Known	None Known
Potassium hydroxide 1310-58-3	None Known	None Known	Ceiling: 2 mg/m ³
gineering Measures	Ensure adequate ventilati	on, especially in confined areas	

Personal Protective Equipment Eve/Face Protection

Skin and Body Protection

Respiratory Protection

Safety glasses with side-shields. Wear protective gloves/clothing. Gloves & Lab Coat. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Physical State Flash Point Boiling Point/Range Clear, colorless Liquid Not applicable No data available Odor pH Autoignition Temperature

Odorless 14 Not applicable

Specific Gravity Vapor Density ~1.5 (water = 1) No information available Vapor Pressure

No information available

10. STABILITY AND REACTIVITY

 Stability
 Stable under norm

 Incompatible Products
 Strong acids. Meta

Stable under normal conditions of use and storage.

Strong acids. Metals. Water-reactive, reacts vigorously with water.

Product Code(s) 7166

Conditions to Avoid Excessive heat. Incompatible products.

Hazardous Decomposition Products Carbon oxides (COx). Potassium Oxides.

Hazardous Reactions Reacts violently with water. Contact with metals may evolve flammable hydrogen gas.

Hazardous polymerization does not occur.

Hazardous Polymerization

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium azide	27 mg/kg (Rat)	20 mg/kg (Rabbit)	None Known
Potassium iodide	None Known	None Known	None Known
Water	90 mL/kg (Rat)	None Known	None Known
Potassium hydroxide	214 mg/kg (Rat)	None Known	85 mg/L Gambusia affinis 24 hr

Chronic Toxicity

Chronic Toxicity

Prolonged exposure may cause chronic effects.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium azide	None Known	None Known	None Known	None Known
Potassium iodide	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known
Potassium hydroxide	None Known	None Known	None Known	None Known

Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Sodium azide	None Known	None Known	None Known
Potassium iodide	None Known	None Known	None Known
Water	None Known	None Known	None Known
Potassium hydroxide	None Known	None Known	None Known

12. ECOLOGICAL INFORMATION

Ecotoxicity

The material may be toxic to aquatic life.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Sodium azide	None Known	LC50= 0.7 mg/L Lepomis macrochirus 96 h LC50= 0.8 mg/L Oncorhynchus mykiss 96 h LC50= 5.46 mg/L Pimephales promelas 96 h	None Known	None Known
Potassium iodide	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known
Potassium hydroxide	None Known	None Known	None Known	None Known

Persistence and Degradability Based on components product is expected to be poorly eliminated from water and poorly biodegradable.

Bioaccumulation/Accumulation

Some components of this material have some potential to bioaccumulate but not all have been tested. Sodium azide: When released into the soil, this material is not expected to biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into the air, this material may be moderately degraded by photolysis.

Chemical Name	Log Pow
Sodium azide	None Known
Potassium iodide	None Known
Water	None Known
Potassium hydroxide	= 0.65
	= 0.83

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations. Should not be released into the environment.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sodium azide - 26628-22-8	None Known	P105	None Known	None Known
Potassium iodide - 7681-11-0	None Known	None Known	None Known	None Known
Water - 7732-18-5	None Known	None Known	None Known	None Known
Potassium hydroxide - 1310-58-3	None Known	None Known	None Known	None Known

14. TRANSPORT INFORMATION

DOT	
Proper Shipping Name	CORROSIVE LIQUIDS, TOXIC, NOS (Potassium hydroxide/Sodium azide solution)
Hazard Class	8
Subsidiary Class	6.1
UN-No	2922
Packing Group	ll
Reportable Quantity (RQ)	1000
IATA UN-No	2922

Proper Shipping Name	CORROSIVE LIQUIDS, TOXIC, NOS (Potassium hydroxide/Sodium azide solution)
Hazard Class	8
Subsidiary Class	6.1
Packing Group	II
IMDG/IMO	
Proper Shipping Name	CORROSIVE LIQUIDS, TOXIC, NOS (Potassium hydroxide/Sodium azide solution)
Hazard Class	8
Subsidiary Class	6.1
UN-No	2922
Packing Group	II

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELIN CS	ENCS	IECSC	KECL	PICCS	AICS
Sodium azide 26628-22-8 (1.05)	Present	Х	X	1-482	Х	KE-31357	Х	Х
Potassium iodide 7681-11-0 (15)	Present	Х	X	(1)-439	Х	KECL	Х	Х
Water 7732-18-5(to 100%)	Present	Х	Х	ENCS	Х	KE-35400	Х	Х
Potassium hydroxide 1310-58-3 (70)	Present	Х	X	1-369	Х	KE-29139	Х	Х

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Sodium azide	26628-22-8	1.05	1.0
Potassium iodide	7681-11-0	15	None Known
Water	7732-18-5	to 100%	None Known
Potassium hydroxide	1310-58-3	70	None Known
SARA 311/312 Hazard Categories			
Acute Health Hazard	Yes		
Chronic Health Hazard	Yes		
Fire Hazard	No		
Sudden Release of Pressure Hazard	No		

Yes

Clean Water Act

Reactive Hazard

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium azide 26628-22-8(1.05)	None Known	None Known	None Known	None Known
Potassium iodide 7681-11-0 (15)	None Known	None Known	None Known	None Known
Water 7732-18-5 (to 100%)	None Known	None Known	None Known	None Known
Potassium hydroxide 1310-58-3 (70)	1000 lb	None Known	None Known	Х

ALK. POTASSIUM IODIDE AZIDE

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Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Sodium azide	26628-22-8	1.05	None Known	None Known	None Known	None Known
Potassium iodide	7681-11-0	15	None Known	None Known	None Known	None Known
Water	7732-18-5	to 100%	None Known	None Known	None Known	None Known
Potassium hydroxide	1310-58-3	70	None Known	None Known	None Known	None Known

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	
Sodium azide	1000 lb	1000 lb	
Potassium iodide	None Known	None Known	
Water	None Known	None Known	
Potassium hydroxide	1000 lb	None Known	

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

Chemical Name	CAS-No	California Prop. 65
Sodium azide	26628-22-8	None Known
Potassium iodide	7681-11-0	None Known
Water	7732-18-5	None Known
Potassium hydroxide	1310-58-3	None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium azide	Х	Х	Х	None Known	Х
Potassium iodide	None Known	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known	None Known
Potassium hydroxide	Х	Х	Х	None Known	Х

International Regulations

Mexico - Grade

Chemical Name	Carcinogen Status	Exposure Limits
Sodium azide	None Known	None Known
Potassium iodide	None Known	None Known
Water	None Known	None Known
Potassium hydroxide	None Known	None Known

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

Component	WHMIS Hazard Class
Sodium azide	1 %
26628-22-8 (1.05)	D1A
Potassium iodide	1 %
7681-11-0(15)	D2A
Water 7732-18-5 (to 100%)	Uncontrolled product according to WHMIS classification criteria
Potassium hydroxide	1 %
1310-58-3 (70)	D1B E



16. OTHER INFORMATION



Prepared By Issuing Date Revision Date Revision Note Disclaimer Regulatory Affairs Department 12/16/2010 25-Feb-2013 (M)SDS sections updated. 16.

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS