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Revision Number 2
EN

Section 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product identifier

Product name ALKALINE POTASSIUM IODIDE-AZIDE

Product Code(s) 7166

Other means of identification

UN Number 2922

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended Use Industrial (not for food or food contact use). Use as a laboratory reagent.

Uses advised against None

Details of manufacturer or importer

LaMotte Company, Inc.
802 Washington Avenue
P.O. Box 329
Chestertown, MD 21620 USA
T 410-778-3100
F 410-778-9748

Supplier

LaMotte Pacific Pty Ltd.
2/6 Bonz Place
Seven Hills, NSW 2147
T (02) 9624 8842
F (02) 9674 5115

Contact for timely inquiries in regards to this product

LaMotte Customer Information: system@lamotteco.com

Vendart Pty. Ltd. Customer Information: info@vendart.com.au

Emergency telephone number

24-Hour Emergency telephone number (CHEM-TEL): USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

Local emergency telephone number Poisons Information Center, Australia: 13 11 26
Poisons Information Center, New Zealand: 0800 764 766

Section 2: HAZARD(S) IDENTIFICATION

GHS Classification

| | |
|-----------------------------------|---------------------|
| Acute toxicity - Oral | Category 4 - (H302) |
| Acute toxicity - Dermal | Category 4 - (H312) |
| Skin corrosion/irritation | Category 1 - (H314) |
| Serious eye damage/eye irritation | Category 1 - (H318) |

Label elements

Skull and crossbones

Corrosion



Signal word

DANGER

Hazard statements

H302 - Harmful if swallowed. H312 - Harmful in contact with skin. H314 - Causes severe skin burns and eye damage.

Precautionary Statements

Prevention: Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves /protective clothing /eye protection /face protection. Do not breathe dust /fume /gas /mist /vapors /spray.

Response: Immediately call a POISON CENTER or doctor/physician IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Rinse mouth Do NOT induce vomiting Drink 1 or 2 glasses of water

Storage:

Store locked up.

Disposal:

Dispose of contents/container to an approved waste disposal plant.

Other hazards which do not result in classification

Harmful to aquatic life with long lasting effects.

Section 3: COMPOSITION & INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

| Chemical name | CAS No | Weight-% |
|---------------------------|-------------|----------|
| Sodium azide | 26628-22-8 | 1.05 |
| Potassium hydroxide | 1310-58-3 | 70 |
| Non-hazardous ingredients | Proprietary | Balance |

Section 4: FIRST AID MEASURES

Description of first aid measures

| | |
|---|--|
| General advice | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. |
| Local emergency telephone number | Poisons Information Center, Australia: 13 11 26 Poisons Information Center, New Zealand: 0800 764 766 |
| Inhalation | Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention. |
| Eye contact | Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Skin contact | Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. |
| Ingestion | Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. |
| Self-protection of the first aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing. |

Most important symptoms and effects, both acute and delayed

| | |
|---------------------------|--|
| Symptoms | Burning sensation. |
| Note to physicians | Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. |

Section 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

| | |
|---------------------------------------|---|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | No information available. |

Specific hazards arising from the chemical

| | |
|---|--|
| Specific hazards arising from the chemical | The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. |
| Hazardous combustion products | Contact with metals may evolve flammable hydrogen gas. |

Special protective actions for fire-fighters

| | |
|---|---|
| Special protective equipment for | Firefighters should wear self-contained breathing apparatus and full firefighting turnout |
|---|---|

fire-fighters gear. Use personal protection equipment.

Hazchem code 2X.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Attention! Corrosive material. Keep people away from and upwind of spill/leak.

Other Information Refer to protective measures listed in Sections 7 and 8.

For emergency responders In the case of vapor formation use a respirator with an approved filter. Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Keep out of drains, sewers, ditches and waterways. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. Protect from moisture. Store away from other materials.

Incompatible materials Acids. Bases. Oxidizing agent.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

Exposure Limits

| Chemical name | Australia |
|----------------------------------|---|
| Sodium azide 26628-22-8 | Peak: 0.11 ppm Peak: 0.3 mg/m ³ |
| Potassium hydroxide 1310-58-3 | Peak: 2 mg/m ³ |

| Chemical name | Australia |
|----------------------------------|-----------|
| Sodium azide 26628-22-8 | *_- |
| Potassium hydroxide 1310-58-3 | *_- |

Appropriate engineering controls

| | |
|-----------------------------|---|
| Engineering controls | Showers Eyewash stations Ventilation systems. |
|-----------------------------|---|

Individual protection measures, such as personal protective equipment

| | |
|--|--|
| Eye/face protection | Face protection shield. |
| Skin and body protection | Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. |
| Hand protection | Wear suitable gloves. Impervious gloves. |
| Respiratory protection | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| Environmental exposure controls | No information available. |

Section 9: PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

| | |
|-----------------------|------------------|
| Physical state | Liquid |
| Appearance | Clear, colorless |
| Color | Clear, colorless |
| Odor | Odorless |

| Property | Values | Remarks • Method |
|---------------------------------------|--------------------------|--------------------------|
| pH | 14 | |
| Melting point / freezing point | Not applicable | No information available |
| Boiling point / boiling range | No information available | No information available |
| Flash point | No information available | No information available |
| Evaporation rate | No information available | No information available |
| Flammability (solid, gas) | No information available | No information available |
| Flammability Limit in Air | | No information available |
| Upper flammability limit: | No data available | |
| Lower flammability limit: | No data available | |
| Vapor pressure | No information available | |
| Vapor density | No information available | |
| Relative density | ~1.5 (water = 1) | |
| Water solubility | No information available | No information available |
| Solubility in other solvents | No information available | No information available |
| Partition coefficient | No information available | No information available |
| Autoignition temperature | No information available | No information available |
| Hyphen | No information available | No information available |

| | | |
|--------------------------|--------------------------|--------------------------|
| Kinematic viscosity | No information available | No information available |
| Dynamic viscosity | No information available | No information available |
| Other information | | |
| Softening point | No information available | |
| Molecular weight | No information available | |
| VOC Content (%) | No information available | |
| Density | No information available | |
| Bulk density | No information available | |

Section 10: STABILITY AND REACTIVITY

| | |
|---|--|
| Stability | Stable under normal conditions. Stable under recommended storage conditions. |
| Explosion data | |
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge | None. |
| Possibility of hazardous reactions | None under normal processing. |
| Hazardous polymerization | Hazardous polymerization does not occur. |
| Conditions to avoid | Exposure to air or moisture over prolonged periods. |
| Incompatible materials | Acids. Bases. Oxidizing agent. |
| Hazardous decomposition products | Carbon oxides (COx). Potassium Oxides. |

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Information on likely routes of exposure

Product Information

| | |
|---------------------|--|
| Inhalation | Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. |
| Eye contact | Specific test data for the substance or mixture is not available. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes. |
| Skin contact | Specific test data for the substance or mixture is not available. May cause irritation. Toxic in contact with skin. (based on components). |
| Ingestion | Specific test data for the substance or mixture is not available Causes burns (based on components) Ingestion causes burns of the upper digestive and respiratory tracts May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking May cause lung damage if swallowed May be fatal if swallowed and enters airways |
| Symptoms | Redness. Burning. MAY CAUSE BLINDNESS. Coughing and/ or wheezing. |

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 475.00 mg/kg
ATEmix (dermal) 1619.00 mg/kg

15% of the mixture consists of ingredient(s) of unknown acute oral toxicity
85 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
86.05 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
86.05 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
86.05 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------------|---------------------|-----------------------|-------------------------------|
| Sodium azide | = 27 mg/kg (Rat) | = 20 mg/kg (Rabbit) | 0.054 - 0.52 mg/L (Rat) 4 h |
| Potassium hydroxide | = 284 mg/kg (Rat) | - | - |

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|--|---|
| Skin corrosion/irritation | May cause skin irritation. |
| Serious eye damage/eye irritation | Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes. |
| Respiratory or skin sensitization | No information available. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | |
| Reproductive toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Aspiration hazard | No information available. |

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity

Unknown aquatic toxicity 15 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---------------|----------------------|--|----------------------------|-----------|
| Sodium azide | - | LC50: =0.7mg/L (96h, Lepomis macrochirus) LC50: =0.8mg/L (96h, Oncorhynchus mykiss) LC50: =5.46mg/L (96h, Pimephales promelas) | - | - |

| | | | | |
|---------------------|---|---|---|---|
| Potassium hydroxide | - | - | - | - |
|---------------------|---|---|---|---|

Persistence and degradability

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

Bioaccumulative potential

Bioaccumulation No information available.

Component Information

| Chemical name | Partition coefficient |
|---------------------|-----------------------|
| Sodium azide | - |
| Potassium hydroxide | 0.83 |

Mobility

Mobility in soil No information available.

Mobility No information available.

Other adverse effects

Other adverse effects No information available.

| Chemical name | EU - Endocrine Disrupters Candidate List | EU - Endocrine Disrupters - Evaluated Substances | Endocrine disrupting potential |
|---------------------|--|--|--------------------------------|
| Sodium azide | - | - | - |
| Potassium hydroxide | - | - | - |

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Section 14: TRANSPORT INFORMATION

UN Number 2922
Proper shipping name CORROSIVE LIQUID, TOXIC, N.O.S. (Potassium hydroxide/Sodium azide solution)
Hazard Class 8
Subsidiary hazard class 6.1
Packing group II

Hazchem code 2X

IATA

UN number or ID number 2922
Proper shipping name CORROSIVE LIQUIDS, TOXIC, N.O.S (Potassium hydroxide / Sodium azide solution)
Transport hazard class(es) 8
Subsidiary class 6.1
Packing group II

IMDG/IMO

UN number or ID number 2922
Proper shipping name CORROSIVE LIQUIDS, TOXIC, N.O.S (Potassium hydroxide / Sodium azide solution)

Transport hazard class(es) 8
Subsidiary class 6.1
Packing group II

Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Australia

See section 8 for national exposure control parameters

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

Poison Schedule Number 6

International Inventories

| | |
|---------------|----------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer None known

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

Section 16: ANY OTHER RELEVANT INFORMATION

Prepared by Regulatory Affairs Department

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Revision note

SDS sections updated. 2. 14.

Key or legend to abbreviations and acronyms used in the safety data sheet**Legend Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

| | | | |
|---------|-----------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |
| C | Carcinogen | | |

Disclaimer

The information provided in this Safety Data Sheet was prepared to the best of our knowledge, data and belief as of the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, and disposal of the product as it relates to properly trained personnel, and is not intended to be comprehensive. It is not to be considered a warranty or quality specification. Users are advised to exercise their own judgment to determine safety, safe handling, use, processing, storage, transportation, and disposal. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet