

SAFETY DATA SHEET

| Issue Date 07-Oct-2018 | Revision Date 24-Jan-20 | 19 | Version 1.4 |
|--|-----------------------------------|----------------------|-------------|
| | 1. Identificatio | n | |
| Product identifier | | | |
| Product Name | Alkaline Iodide-Azide Reagent Pov | der Pillows | |
| Other means of identification | | | |
| Product Code(s) | 107266 | | |
| Recommended use of the chemica | and restrictions on use | | |
| Recommended Use | Laboratory reagent. Determination | of dissolved oxygen. | |
| Details of the supplier of the safety data sheet | | | |
| Manufacturer Address Hach Company P.O.Box 389 Loveland, CO 80539 USA +1(970) 669-3050 | | | |
| Emergency telephone number | | | |
| Emergency Telephone | +1(303) 623-5716 - 24 Hour Servic | е | |

2. Hazards identification

Classification

| Corrosive to metals | Category 1 - (H290) |
|--|---------------------|
| Acute toxicity - Oral | Category 3 - (H301) |
| Acute toxicity - Dermal | Category 3 - (H311) |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 3 - (H331) |
| Skin corrosion/irritation | Category 1 - (H314) |
| Serious eye damage/eye irritation | Category 1 - (H318) |
| Specific target organ toxicity (repeated exposure) | Category 2 - (H373) |
| Chronic aquatic toxicity | Category 3 - (H412) |

Label elements

Signal word - Danger

Hazard statements

H290 - May be corrosive to metals

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H331 - Toxic if inhaled

H373 - May cause damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects



Corrosion Skull and crossbones Health hazard

Precautionary statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

P271 - Use only outdoors or in a well-ventilated area

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P363 - Wash contaminated clothing before reuse

P273 - Avoid release to the environment

P234 - Keep only in original packaging

P390 - Absorb spillage to prevent material damage

P270 - Do not eat, drink or smoke when using this product

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

Other Hazards Known

Not applicable

3. Composition/information on ingredients

Substance

Not applicable.

<u>Mixture</u>

Chemical Family

Mixture.

| Chemical name | CAS No. | Synonyms | Percent Range |
|-------------------------------|------------|--------------------------|---------------|
| Lithium hydroxide monohydrate | 1310-66-3 | No information available | 60 - 70% |
| Potassium iodide (KI) | 7681-11-0 | Potassium Iodide | 30 - 40% |
| Sodium azide | 26628-22-8 | No information available | 1 - 5% |

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. | | |
|--|---|--|--|
| 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. Do not breathe dust. | | |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical advice/attention. | | |
| Skin contact | Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. | | |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get immediate medical advice/attention. | | |
| Self-protection of the first aider | Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe dust. 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. Use personal protective equipment as required. See section 8 for more information. | | |
| Most important symptoms and effe | cts, both acute and delayed | | |
| Symptoms | Burning sensation. Coughing and/ or wheezing. Difficulty in breathing. | | |
| Indication of any immediate medical attention and special treatment needed | | | |
| 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. | | |

5. Fire-fighting measures

| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|---|--|
| Unsuitable extinguishing media | CAUTION: Use of water spray when fighting fire may be inefficient. |
| 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 | No information available. |
| Explosion data Sensitivity to mechanical impac | c t None. |

Sensitivity to static discharge None.

Special protective actions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

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. Avoid generation of dust. Do not breathe dust. | | |
|--|--|--|--|
| Other information | Refer to protective measures listed in Sections 7 and 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 | Prevent further leakage or spillage if safe to do so. | | |
| Methods for cleaning up | Pick up and transfer to properly labeled containers. | | |
| Prevention of secondary hazards | Clean contaminated objects and areas thoroughly observing environmental regulations. | | |

7. Handling and storage

Precautions for 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. Do not breathe dust. Avoid generation of dust. Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

| Engineering controls | Showers Eyewash stations Ventilation systems. |
|------------------------------------|--|
| Individual protection measures, su | ch as personal protective equipment |
| Eye/face protection | Face protection shield. |
| Hand protection | Wear suitable gloves. Impervious gloves. |
| Skin and body protection | Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. |
| 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. |
| General hygiene considerations | Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust. Take off contaminated clothing and wash before reuse. |

9. Physical and chemical properties

Information on basic physical and chemical properties

| Physical state Appearance Odor | crystalline Slight | Solid | | Color Odor threshold | white No data available | |
|--------------------------------------|-----------------------|-------|-------------------------|-------------------------|----------------------------|--|
| Property_ | | | Values | | Remarks • Method | |
| Molecular weight | t | | No data availa | ble | | |
| рН | | | 12.6 | | 5% Solution | |
| Melting point/free | ezing point | | 110 °C / 23 | 0 °F | | |
| Boiling point / bo | oiling range | | No data availa | ble | | |
| Evaporation rate | | | Not applicable | | | |
| Vapor pressure | | | Not applicable | | | |
| Vapor density (ai | r = 1) | | Not applicable | | | |
| Specific gravity (| water = 1 / air = 1) | | 1.94 | | | |
| Partition Coeffici | ent (n-octanol/wate | er) | log K _{ow} ~ 0 | | | |
| Soil Organic Carl Coefficient | bon-Water Partition | ı | log K _{oc} ~ 0 | | | |
| Autoignition tem | perature | | No data availa | ble | | |
| Decomposition to | emperature | | No data availa | ble | | |
| Dynamic viscosit | ty. | | Not applicable | | | |
| Kinematic viscos | sity | | Not applicable | | | |

Solubility(ies)

Water solubility

| Water solubility classification | Water solubility | Water Solubility Temperature |
|---------------------------------|------------------|------------------------------|
| Soluble | > 1000 mg/L | 25 °C / 77 °F |

Solubility in other solvents

| Chemical Name | Solubility classification | Solubility | Solubility Temperature |
|---------------|---------------------------|-------------|------------------------|
| Acid | Soluble | > 1000 mg/L | 25 °C / 77 °F |

Other Information

Metal Corrosivity Classified as corrosive to metal according to GHS criteria

Steel Corrosion Rate Aluminum Corrosion Rate Not applicable 6.3 mm/yr / 0.25 in/yr

Volatile Organic Compounds (VOC) Content Not applicable

| Chemical name | CAS No. | Volatile organic compounds (VOC) content | CAA (Clean Air Act) |
|-------------------------------|------------|---|---------------------|
| Lithium hydroxide monohydrate | 1310-66-3 | No data available | - |
| Potassium iodide (KI) | 7681-11-0 | Not applicable | - |
| Sodium azide | 26628-22-8 | No data available | - |

Explosive properties

| Upper explosion limit Lower explosion limit | No data available No data available |
|---|--|
| Flammable properties | |
| Flash point | Not applicable |
| Flammability Limit in Air Upper flammability limit Lower flammability limit | No data available No data available |
| Oxidizing properties | No data available. |
| Bulk density | No data available |

10. Stability and reactivity

| Reactivity | No information available. |
|------------------------------------|---|
| Chemical stability | Stable under normal conditions. |
| Possibility of Hazardous Reactions | None under normal processing. |
| Conditions to avoid | Exposure to air or moisture over prolonged periods. Excessive heat. |
| Incompatible materials | Oxidizing agent. Acids. Bases. |

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating and toxic gases and vapors.

| 11. Toxicological information |
|--------------------------------------|
|--------------------------------------|

Information on Likely Routes of Exposure

Product Information

| Inhalation | Corrosive by inhalation. 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. Toxic by inhalation. |
|--------------|--|
| Eye contact | Causes burns. Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes. |
| Skin contact | Toxic in contact with skin. Corrosive. Causes severe burns. Avoid contact with skin and clothing. |
| Ingestion | Causes burns. 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. Difficulty in breathing. |

Acute toxicity Toxic if swallowed Toxic in contact with skin Toxic if inhaled

Product Acute Toxicity Data Test data reported below.

Oral Exposure Route

| Endpoint type | Toxicological | Key literature references and sources for data |
|---------------|---------------------|--|
| Rat | effects | Outside testing |
| LD50 | Behavioral | · |
| | Flaccid muscle | |
| | tone | |
| | Lethargy | |
| | Endocrine | |
| | Abnormalities of | |
| | the spleen | |
| | Eye | |
| | Ptosis | |
| | Gastrointestinal | |
| | Excess fluid in the | |
| | peritoneal cavity | |
| | Liver | |
| | Abnormalities of | |
| | the liver | |
| | Lungs, Thorax, | |
| | or Respiration | |
| | Abnormalities of | |
| | the lungs | |
| | Chromorhinorrhea | |
| | Excess fluid in the | |
| | the pleural cavity | |
| | Red or brown | |
| | staining of the | |
| | nose/mouth area | |
| | Nutritional and | |
| | Gross Metabolic | |
| | Emaciation | |
| | Reproductive | |
| | Soiling and | |
| | wetness of the | |
| | anogenital area | |
| | Skin and | |
| | Appendages | |
| | Piloerection | |

Inhalation (Gas) Exposure Route

Ingredient Acute Toxicity Data Test data reported below.

Oral Exposure Route

| Chemical name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---|-------------------------|---------------|------------------|-----------------------|--|
| Lithium hydroxide monohydrate (60 - 70%) CAS#: 1310-66-3 | Rat LD₅₀ | 225 mg/kg | None reported | None reported | IUCLID (The International Uniform Chemical Information Database) |
| Potassium iodide (KI) (30 - 40%) CAS#: 7681-11-0 | Rat LD ₅₀ | 2779 mg/kg | None reported | None reported | RTECS (Registry of Toxic Effects of Chemical Substances) |
| Sodium azide (1 - 5%) CAS#: 26628-22-8 | Rat LD ₅₀ | 27 mg/kg | None reported | None reported | RTECS (Registry of Toxic Effects of Chemical Substances) |

Dermal Exposure Route

| Chemical name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---------------|------------------|---------------|------------------|-----------------------|---|
|---------------|------------------|---------------|------------------|-----------------------|---|

| Sodium azide | Rabbit | 20 mg/kg | None | None reported | RTECS (Registry of Toxic |
|------------------|--------|----------|----------|---------------|--------------------------|
| (1 - 5%) | LD50 | | reported | | Effects of Chemical |
| CAS#: 26628-22-8 | | | | | Substances) |

Inhalation (Dust/Mist) Exposure Route

| Chemical name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---|-------------------------|---------------|------------------|---|--|
| Lithium hydroxide monohydrate (60 - 70%) CAS#: 1310-66-3 | Rat LC ₅₀ | 0.96 mg/L | 4 hours | None reported | IUCLID (The International Uniform Chemical Information Database) |
| Sodium azide (1 - 5%) CAS#: 26628-22-8 | Rat LC₅₀ | 0.037 mg/L | None reported | Eye Other effects Behavioral Convulsions or effect on seizure threshold Lungs, Thorax, or Respiration Structural or functional change in trachea or bronchi | RTECS (Registry of Toxic Effects of Chemical Substances) |

Inhalation (Vapor) Exposure Route

Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity.

- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

Acute Toxicity Estimations (ATE)

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

| ATEmix (oral) | No information available |
|-------------------------------|--------------------------|
| ATEmix (dermal) | 865.80 |
| ATEmix (inhalation-dust/mist) | 0.90 |
| ATEmix (inhalation-vapor) | 21.69 |
| ATEmix (inhalation-gas) | No information available |

Skin corrosion/irritation

Causes severe burns.

Product Skin Corrosion/Irritation Data

No data available.

Ingredient Skin Corrosion/Irritation Data

Test data reported below.

| Chemical name | Test method | Species | Reported dose | Exposure time | Results | Key literature references and sources for data |
|---|------------------------------|---------|------------------|------------------|-------------------|--|
| Lithium hydroxide monohydrate (60 - 70%) CAS#: 1310-66-3 | Existing human experience | Human | None reported | None reported | Corrosive to skin | ERMA (New Zealands Environmental Risk Management Authority) |
| Potassium iodide (KI) (30 - 40%) | Standard Draize Test | Rabbit | None reported | None reported | Skin irritant | Vendor SDS |

107266 - Alkaline Iodide-Azide Reagent Powder Pillows

| CAS#: 7681-11-0 | | | | | |
|--|---|--------|---------|-------------------|---|
| Sodium azide (1 - 5%) CAS#: 26628-22-8 | Organization for Economic Co-operation and Development (OECD) - Test 404: Acute Dermal Corrosion/Irritation | 500 mg | 1 hours | Corrosive to skin | ECHA (The European Chemicals Agency) |

Serious eye damage/eye irritation

Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

Product Serious Eye Damage/Eye Irritation Data

No data available.

Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

| Chemical name | Test method | Species | Reported dose | Exposure time | Results | Key literature references and sources for data |
|--|-------------------------|---------|------------------|------------------|--------------|--|
| Potassium iodide (KI) (30 - 40%) CAS#: 7681-11-0 | Standard Draize Test | Rabbit | None reported | 24 hours | Eye irritant | Vendor SDS |

Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

Product Sensitization Data

No data available.

Ingredient Sensitization Data

No data available.

Skin Sensitization Exposure Route

| Chemical name | Test method | Species | Results | Key literature references and |
|--|-------------|---------|---------------------------------------|--|
| | | | | sources for data |
| Potassium iodide (KI) (30 - 40%) CAS#: 7681-11-0 | Patch test | Human | Not confirmed to be a skin sensitizer | ERMA (New Zealands Environmental Risk Management Authority) |

STOT - single exposure

Based on available data, the classification criteria are not met.

Product Specific Target Organ Toxicity Single Exposure Data No data available.

Ingredient Specific Target Organ Toxicity Single Exposure Data

Test data reported below.

Oral Exposure Route

| Chemical name | Endpoint | Reported | Exposure | Toxicological effects | Key literature references and |
|-----------------------|----------|------------|----------|-----------------------|-------------------------------|
| | type | dose | time | | sources for data |
| Potassium iodide (KI) | Mouse | 1862 mg/kg | None | Lungs, Thorax, or | RTECS (Registry of Toxic |
| (30 - 40%) | LDLO | | reported | Respiration | Effects of Chemical |
| CAS#: 7681-11-0 | | | | Dyspnea | Substances) |

STOT - repeated exposure

May cause damage to organs.

Product Specific Target Organ Toxicity Repeat Dose Data No data available.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data Test data reported below.

Oral Exposure Route

| Chemical name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|--|------------------|---------------|------------------|-----------------------|--|
| Potassium iodide (KI) (30 - 40%) CAS#: 7681-11-0 | Rat NOAEL | 0.5 mg/kg | 90 days | None reported | ECHA (The European Chemicals Agency) |

Carcinogenicity

Based on available data, the classification criteria are not met.

Product Carcinogenicity Data

No data available.

Ingredient Carcinogenicity Data

No data available.

| Chemical name | CAS No. | ACGIH | IARC | NTP | OSHA |
|-----------------------|------------|-------|------|-----|------|
| Lithium hydroxide | 1310-66-3 | - | - | - | - |
| monohydrate | | | | | |
| Potassium iodide (KI) | 7681-11-0 | - | - | - | - |
| Sodium azide | 26628-22-8 | - | - | - | - |

Legend

| ACGIH (American Conference of Governmental Industrial Hygienists) | Does not apply |
|---|----------------|
| IARC (International Agency for Research on Cancer) | Does not apply |
| NTP (National Toxicology Program) | Does not apply |
| OSHA (Occupational Safety and Health Administration of the US Department of | Does not apply |
| Labor) | |

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Product Germ Cell Mutagenicity invitro Data

No data available.

Ingredient Germ Cell Mutagenicity invitro Data

Test data reported below.

| Chemical name | Test | Cell Strain | Reported dose | Exposure time | Results | Key literature references and sources for data |
|--|-------------------------|-------------------|---------------|------------------|--|---|
| Potassium iodide (KI) (30 - 40%) CAS#: 7681-11-0 | Cytogenetic analysis | Rat ascites tumor | 500 mg/kg | None reported | Positive test result for mutagenicity | RTECS (Registry of Toxic Effects of Chemical Substances) |
| Sodium azide (1 - 5%) CAS#: 26628-22-8 | DNA damage | Human leukocyte | 3 mmol/L | None reported | Positive test result for mutagenicity | RTECS (Registry of Toxic Effects of Chemical Substances) |

Product Germ Cell Mutagenicity invivo Data

No data available.

Ingredient Germ Cell Mutagenicity invivo Data

No data available.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Product Reproductive Toxicity Data

No data available.

Ingredient Reproductive Toxicity Data

Test data reported below.

Oral Exposure Route

| Chemical name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|-----------------------|------------------|---------------|------------------|------------------------|--|
| Potassium iodide (KI) | Human | 2700 mg/kg | 39 weeks | Specific Developmental | RTECS (Registry of Toxic |
| (30 - 40%) | TDLo | | | Abnormalities | Effects of Chemical |
| CAS#: 7681-11-0 | | | | Endocrine System | Substances) |

Aspiration hazard

Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Unknown aquatic toxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Product Ecological Data

Aquatic Acute Toxicity No data available.

Aquatic Chronic Toxicity No data available.

Ingredient Ecological Data

Aquatic Acute Toxicity Test data reported below.

Fish

| Chemical name | Exposure time | Species | Endpoint type | Reported dose | Key literature references and sources for data |
|--|------------------|---------------------|------------------|---------------|--|
| Sodium azide (1 - 5%) CAS#: 26628-22-8 | 96 hours | Lepomis macrochirus | LC ₅₀ | 0.68 mg/L | PEEN (Pan European Ecological Network) |

Crustacea

| Chemical name | Exposure time | Species | Endpoint type | Reported dose | Key literature references and sources for data |
|--|------------------|---------------|------------------|---------------|--|
| Sodium azide (1 - 5%) CAS#: 26628-22-8 | 48 Hours | Daphnia pulex | EC ₅₀ | 4.2 mg/L | PEEN (Pan European Ecological Network) |
| Chemical name | Exposure | Species | Endpoint | Reported | Key literature references and |

| | time | | type | dose | sources for data |
|---|----------------|---|---------------------|------------------|---|
| Sodium azide (1 - 5%) CAS#: 26628-22-8 | 96 hours | Selenastrum capricornutum | EC50 | 0348 mg/L | PEEN (Pan European Ecological Network) |
| Aquatic Chronic Toxi No data available. | city | | | | |
| Persistence and degr | adability | | | | |
| Product Biodegradab No data available. | ility Data | | | | |
| Bioaccumulation | | | | | |
| Product Bioaccumula No data available. | ation Data | | | | |
| Partition Coefficient (| n-octanol/wa | ter) log l | Kow ~ 0 | | |
| Mobility | | | | | |
| Soil Organic Carbon- | Water Partitic | on Coefficient log l | K _{oc} ~ 0 | | |
| Other adverse effects Contains a substance with an endocrine-disrupting potential. | | | | | |
| | | 13. Disposal con | sideratio | ns | |
| Waste treatment met | nods | | | | |
| Waste from residues/ products | /unused | Dispose of in accordance with environmental legislation. | local regula | tions. Dispose c | of waste in accordance with |
| Contaminated package | ging | Do not reuse empty containers | 6. | | |
| | | 14. Transportation | informa | tion | |
| | | | | | |
| MEX UN/ID no Proper shipping r Hazard Class Packing Group Description | name | UN2680 Lithium Hydroxide Mixture 8 II UN2680, Lithium hydroxide m | ixture, 8, II | | |
| Note: | | No special precautions necess | sary. | | |
| <u>TDG</u> UN/ID no Hazard Class Packing Group | | UN2680 8 II | | | |
| U.S. DOT UN/ID no Proper shipping r Hazard Class Packing Group Emergency Respo | | UN2680 Lithium Hydroxide Mixture 8 II 154 | | | |

| Number | |
|--|---|
| ICAO (air) Description | Not regulated UN2680, Lithium hydroxide mixture, 8, II |
| IATA_ UN/ID no Hazard Class Packing Group ERG Code | UN2680 8 II 154 |
| IMDG UN/ID no Hazard Class Packing Group | UN2680 8 II |
| <u>RID</u> UN/ID no Proper shipping name Hazard Class Packing Group | UN2680 Lithium hydroxide 8 II |
| <u>ADR</u> UN/ID no Proper shipping name Hazard Class Packing Group | UN2680 Lithium Hydroxide Mixture 8 II |
| <u>ADN</u> UN Number Proper shipping name Hazard Class Packing Group | UN2680 Lithium Hydroxide Mixture 8 II |

Additional information

Number

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

15. Regulatory information

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

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

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

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

16. Other information NFPA Health hazards 3 Flammability 0 Instability 0 Physical and chemical properties -HMIS Health hazards 3* Flammability 0 Physical hazards 0 Personal protection X Key or legend to abbreviations and acronyms used in the safety data sheet Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION TWA (time-weighted average) STEL (Short Term Exposure Limit) TWA STEL SKN* Ceiling Maximum limit value Skin designation Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization **Prepared By** Hach Product Compliance Department. 07-Oct-2018 **Issue Date Revision Date** 24-Jan-2019 **Revision Note** None NOM-018-STPS-2015 The information is believed to be accurate, but it is not exhaustive and must be used only as guidance. It is based on the current state of knowledge of the chemical substance or mixture and is applicable to the appropriate safety precautions

for the product.

Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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End of Safety Data Sheet