Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
Date of Issue: 07/25/2022

ssue: 07/25/2022 Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier Product Form: Mixture

Product Name: Flooded Stationary Lead Acid Battery

Synonyms: PDQ, MCX, MCT, NCN, NXT, H1T

Additional Information: The following product is a flooded, vented lead acid battery. This SDS covers hazards to exposure of the inner contents of the battery that could occur under normal conditions of use/storage, processing or a foreseeable emergency.

1.2. Intended Use of the Product Use of the Substance/Mixture: Battery

1.3. Name, Address, and Telephone of the Responsible Party

Stryten Energy LLC 5925 Cabot Pkwy Alpharetta, GA 30005

678-566-9000

1.4. Emergency Telephone Number

Emergency Number : VelocityEHS

(800)255-3924 (North America) +1 (813)248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification

| Corrosive to metals Category 1 | H290 |
|---|------|
| Acute toxicity (oral) Category 4 | H302 |
| Skin corrosion/irritation Category 1A | H314 |
| Serious eye damage/eye irritation Category 1 | H318 |
| Carcinogenicity Category 1B | H350 |
| Reproductive toxicity Category 1A | H360 |
| Reproductive toxicity, Additional category, Effects on or via | H362 |
| lactation | |
| Specific target organ toxicity — Single exposure, Category 3, | H335 |
| Respiratory tract irritation | |
| Specific target organ toxicity (repeated exposure) Category 1 | H372 |
| Hazardous to the aquatic environment - Acute Hazard Category 1 | H400 |
| Hazardous to the aquatic environment - Chronic Hazard Category 1 $$ | H410 |
| | |

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)









Signal Word (GHS-US)

Hazard Statements (GHS-US)

: Danger

: H290 - May be corrosive to metals.

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage. H335 - May cause respiratory irritation.

H350 - May cause cancer (oral).

H360 - May damage fertility or the unborn child. H362 - May cause harm to breast-fed children.

H372 - Causes damage to organs (hematopoiesis, central nervous system, kidneys)

through prolonged or repeated exposure (oral).

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

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Precautionary Statements (GHS-US)

- : P201 Obtain special instructions before use.
 - P202 Do not handle until all safety precautions have been read and understood.
 - P234 Keep only in original container.
 - P260 Do not breathe vapors, mist, or spray.
 - P263 Avoid contact during pregnancy/while nursing.
 - P264 Wash hands, forearms, and other exposed areas thoroughly after handling.
 - P270 Do not eat, drink or smoke when using this product.
 - P271 Use only outdoors or in a well-ventilated area.
 - P273 Avoid release to the environment.
 - P280 Wear protective gloves, protective clothing, and eye protection.
 - P301+P312 If swallowed: Call a poison center or doctor if you feel unwell.
 - 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/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

- P310 Immediately call a poison center or doctor.
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment (see section 4 on this SDS).
- P330 Rinse mouth.
- P363 Wash contaminated clothing before reuse.
- P390 Absorb spillage to prevent material-damage.
- P391 Collect spillage.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P406 Store in corrosive resistant container with a resistant inner liner.
- P501 Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Inhalation of fumes may cause metal fume fever.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

| Name | Synonyms | Product Identifier | % | GHS US classification |
|---------------|---|---------------------|-------------|--|
| Lead | C.I. Pigment Metal 4 / Lead metal / Lead, elemental / C.I. 77575 | (CAS-No.) 7439-92-1 | 36 – 64 | Carc. 1B, H350 Lact., H362 Repr. 1A, H360 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Comb. Dust |
| Sulfuric acid | Sulphuric acid / SULFURIC ACID / Hydrogen sulfate / Sulphuric acid % / sulfuric acid / Sulfuric acid % / Sulfuric acid (H2SO4) | (CAS-No.) 7664-93-9 | 2.3 – 10.10 | Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402 |
| Water | water / AQUA | (CAS-No.) 7732-18-5 | 6 – 32 | Not classified |

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| Lead oxide (PbO2) | Lead peroxide / Lead Brown / Lead dioxide / Lead Oxide Brown / Lead(IV) oxide / Lead(4+) peroxide / Lead oxide | (CAS-No.) 1309-60-0 | 12 – 22 | Ox. Sol. 3, H272 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. 1B, H350 Repr. 1A, H360 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
|---|--|---------------------|---------|--|
| Polystyrene | Benzene, ethenyl-, homopolymer / Ethenylbenzene homopolymer / Polystyrene resin / Styrene, homopolymer / Styrene, oligomers / Styrene, polymers / POLYSTYRENE / Polyethenylbenzene / Polyvinylbenzene | (CAS-No.) 9003-53-6 | 4-9 | Comb. Dust |
| 2-Propenenitrile, polymer with ethenylbenzene | Acrylonitrile, polymer with styrene / Acrylonitrile-styrene copolymer / Copolymer, styrene-acrylonitrile / Styrene-acrylonitrile copolymer / Poly(acrylonitrile/styrene) / Poly(styrene-co-acrylonitrile) / Lopac / AS Resin / Styrene-acrylonitrile copolymers / Styrene-acrylonitrile | (CAS-No.) 9003-54-7 | 4-9 | Acute Tox. 4 (Oral), H302 Comb. Dust |
| 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene | ABS resin / Acrylonitrile, polymer with 1,3-butadiene and styrene / Acrylonitrile-butadiene-styrene copolymer / Acrylonitrile-butadiene-styrene polymer / Acrylonitrile-butadiene-styrene terpolymer / Poly(acrylonitrile-co-butadiene-co-styrene) / Acrylonitrile-styrene copolymer modified with butadiene-styrene elastomer / Styrene/butadiene/acrylonitrile-copolymers / Acrylonitrile-butadiene-styrene / ACRYLONITRILE/BUTADIENE/STY RENE COPOLYMER / 1,3-Butadiene homopolymer or styrene/1,3-butadiene copolymer, acrylonitrile/styrene copolymer grafted / Polymer of acrylonitrile/buta-1,3-diene/styrene | (CAS-No.) 9003-56-9 | 4-9 | Comb. Dust |

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|-----------------------------|--|---------------------|-----------|--|
| Styrene-butadiene copolymer | Benzene, ethenyl-, polymer with 1,3-butadiene / Butadiene-styrene copolymer / 1,3- Butadiene-styrene copolymer / Butadiene-styrene polymer / 1,3-Butadiene-styrene polymer / Butadiene-styrene resin / Butadiene-styrene resin / Butadiene-styrene rubber / Styrene-1,3-butadiene copolymer / STYRENE/BUTADIENE COPOLYMER / Styrene- butadiene polymer / Styrene/butadiene copolymers / Polymer of styrene and 1,3- butadiene / Styrene-butadiene rubber / 1,3 Butadiene/styrene copolymers / Styrene homopolymer and 1,3-butadiene homopolymer and 1,3-butadiene homopolymer, block copolymer / Polymer of buta-1,3- diene/styrene / Polymer mainly composed of styrene/butadiene | (CAS-No.) 9003-55-8 | 4 – 9 | Comb. Dust |
| Polyvinyl chloride | Chloroethylene polymer / Ethene, chloro-, homopolymer / Ethylene, chloro-, polymer / Vinyl chloride homopolymer / Vinyl chloride polymer / PVC / POLYVINYL CHLORIDE / Vinyl chloride resin / Chloroethylene, polymer / Polyetenyl chloride / Polyethylene chloride / Polyethenyl chloride / Polyvinyl chloride resin / Chloroethene, polymer / Polymer of chloroethene / Polymer mainly composed of vinyl chloride | (CAS-No.) 9002-86-2 | 4 – 9 | Comb. Dust |
| Copper | Copper, metallic / Pigment Metal 2 / Copper metal / Cl 77400 / Copper, elemental / C.l. Pigment Metal 2 / C.l. 77400 / Granulated copper / copper | (CAS-No.) 7440-50-8 | ≤ 2 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Comb. Dust |
| Rubber, natural | Natural rubber (latex) / Rubber solution / Natural latex rubber / Ebonite / cis-Polyisoprene / Latex, natural rubber / Rubber scrap / Natural rubber latex / Natural rubber / Rubber | (CAS-No.) 9006-04-6 | 0.4 – 1 | Not classified |
| Silica, amorphous | Amorphous silica / Silica / Silica, amorphous, fumed / Silica, colloidal / Silicon dioxide / Silicon dioxide, amorphous / Silicon / Silicon(IV) oxide / Un-crystalline silica / Pigment White 27 / Silicon dioxide (amorphous) / Silicon dioxide amorphous / Silicon dioxide / Silica amorphous / Silicon dioxide containing crystalline and amorphous / Fumed silica / SOLUM DIATOMEAE / silicon dioxide | (CAS-No.) 7631-86-9 | 0.4 – 1 | Not classified |
| Ethene, homopolymer | Polyethylene / Ethene polymer / Ethylene homopolymer / Ethylene polymer / Polythene / Polyethylene wax / POLYETHYLENE / Polymer of ethene | (CAS-No.) 9002-88-4 | 0.2 – 0.5 | Comb. Dust |

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| Tin | Tin metal / Tin, elemental / Tin, metal / TIN / tin / Organometallic tin | (CAS-No.) 7440-31-5 | 0.1 – 0.3 | Comb. Dust |
|---|---|----------------------|----------------|---|
| Sulfur | Sulphur / Sulphur, molten / Elemental sulfur / Brimstone / SULFUR / Elemental sulphur / Sulfur, elemental / sulfur | (CAS-No.) 7704-34-9 | < 0.1 | Skin Irrit. 2, H315 Aquatic Acute 3, H402 Aquatic Chronic 3, H412 Comb. Dust |
| Calcium | Calcium metal | (CAS-No.) 7440-70-2 | 0.02 – 0.04 | Water-react. 2, H261 Comb. Dust |
| Silver | C.I. 77820 / Silver, elemental / Silver, metal / CI 77820 / Silver metal / Silver, metallic / Nanoscale silver / Nanosilver / Metallic silver / Silver nanomaterials | (CAS-No.) 7440-22-4 | ≤ 0.01 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Distillates, petroleum, hydrotreated heavy naphthenic | Distillates, petroleum, hydrotreated heavy naphthenic (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20-50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains relatively few normal paraffins.) / Petroleum distillate hydrotreated heavy naphthenic / Naphtha, hydrotreated heavy naphthenic / Distillates (petroleum), hydrotreated heavy naphthenic / Petroleum distillates, hydrotreated heavy naphthenic / Petroleum distillates, | (CAS-No.) 64742-52-5 | < 0.006 | Not classified |
| Calcium stearate | Octadecanoic acid, calcium salt / Stearate, calcium / Stearic acid, calcium salt / Calcium distearate / Octadecanoic acid, calcium salt (2:1) / CALCIUM STEARATE / Calcium octadecanoate / Stearic acid, calcium salts / Bis(octadecanoic acid)calcium salt / Dioctadecanoate calcium / Calcium dioctadecanoate | (CAS-No.) 1592-23-0 | < 0.0001 | Comb. Dust |

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: For exposure to battery contents: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

First-aid Measures After Skin Contact: For exposure to battery contents: Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Get immediate medical advice/attention.

First-aid Measures After Eye Contact: For exposure to battery contents: Immediately rinse with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid Measures After Ingestion: For exposure to battery contents: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: None expected under normal conditions of use. Exposure to battery contents may result in the following: May damage fertility. May damage the unborn child. May cause harm to breast-fed children. Causes severe skin burns and eye damage. Causes damage to organs (hematopoiesis, central nervous system, kidneys) through prolonged or repeated exposure (oral). May cause cancer (oral). May cause respiratory irritation.

Symptoms/Injuries After Inhalation: Exposure to materials housed in battery: May be corrosive to the respiratory tract. Inhalation of vapors may cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Exposure to materials housed in battery: Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Exposure to materials housed in battery: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: Exposure to materials housed in battery: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: None expected under normal conditions of use. Exposure to materials housed in battery: May cause cancer (oral). May damage fertility or the unborn child. Causes damage to organs (hematopoiesis, central nervous system, kidneys) through prolonged or repeated exposure (oral).

<u>Lead:</u> Exposure can result in lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; encephalopathy; kidney disease; hypertension.

<u>Copper:</u> Overexposure to fumes may cause metal fume fever (chills, muscle aches, nausea, fever, dry throat, cough, weakness, lassitude); metallic or sweet taste; discoloration of skin and hair. Tissue damage of mucous membranes may follow chronic dust exposure.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder.

Unsuitable Extinguishing Media: Do NOT use water on live electrical circuits.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Batteries may explode in fire. Damaged batteries can result in rapid heating and the release of flammable vapors. Inhalation of fumes may cause metal fume fever.

Explosion Hazard: Battery may rupture/explode when exposed to excessive heat or fire, if overcharged, short circuited, punctured, or crushed. The following applies to the contents inside the cartridge: Contact with metallic substances may release flammable hydrogen gas.

Reactivity: Batteries are non-reactive under normal conditions of use, storage and transport. If damaged or opened, may be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Metal oxides. Sulfur oxides. Carbon oxides (CO, CO₂).

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray. If the battery is damaged: Do not touch damaged containers or spilled material unless wearing the appropriate protective equipment.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

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6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb spillage to prevent material damage. Cautiously neutralize spilled liquid.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Do not open or damage enclosure, or battery cell as this could cause a potential exposure and release of hazardous materials. Under normal conditions of use this product is considered an article and exposure to the ingredients contained within this product is unlikely.

Precautions for Safe Handling: Since this product is a sealed battery, normal handling hazards are minimal unless the battery is damaged or the internal contents are exposed. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not handle until all safety precautions have been read and understood. Do not breathe battery contents. Avoid contact with eyes, skin and clothing. Obtain special instructions before use. Avoid contact during pregnancy/while nursing. Handle empty containers with care because they may still present a hazard.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in corrosive resistant container with a resistant inner liner. Store in original container or corrosive resistant and/or lined container.

Incompatible Materials: For exposure to the internal contents of the battery: Oxidizers. Metals. May be corrosive to metals. Bases. Reducing agents.

Packaging materials: Store in corrosive resistant/... container with a resistant inner liner.

7.3. Specific End Use(s)

Battery

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

| Sulfuric acid | (7664-93-9) | |
|------------------|-----------------------------------|---|
| USA ACGIH | ACGIH OEL TWA | 0.2 mg/m³ (thoracic particulate matter) |
| USA ACGIH | ACGIH chemical category | Suspected Human Carcinogen contained in strong inorganic acid |
| | | mists |
| USA NIOSH | NIOSH REL (TWA) | 1 mg/m³ |
| USA IDLH | IDLH | 15 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) [1] | 1 mg/m³ |
| Lead (7439-9 | 2-1) | |
| USA ACGIH | ACGIH OEL TWA | 0.05 mg/m ³ |
| USA ACGIH | ACGIH chemical category | Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| USA ACGIH | BEI (BLV) | 200 μg/l Parameter: Lead - Medium: blood - Sampling time: not |
| | | critical (Note: Persons applying this BEI are encouraged to counsel |
| | | female workers of child-bearing age about the risk of delivering a |
| | | child with a PbB (lead in blood level) over the current CDC reference |
| | | value.) |
| USA NIOSH | NIOSH REL (TWA) | 0.05 mg/m ³ |
| USA IDLH | IDLH | 100 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) [1] | 50 μg/m³ |
| USA OSHA | OSHA Action Level/Excursion Limit | 30 μg/m³ (Action Level, see 29 CFR 1910.1025) |
| Tin (7440-31- | -5) | |
| USA ACGIH | ACGIH OEL TWA | 2 mg/m³ (inhalable particulate matter) |
| USA NIOSH | NIOSH REL (TWA) | 2 mg/m³ |

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| Silver (7440-22-4) USA ACGIH ACGIH OEL TWA 0.1 mg/m³ (dust and fume) | |
|--|-----------------------|
| LICA ACCILL ACCILL OF TWA | |
| O.1 mg/m² (dust and rume) | |
| USA NIOSH NIOSH REL (TWA) 0.01 mg/m³ (dust) | |
| 0.9 μg/m³ (nanoparticles <100 nm) | |
| USA IDLH IDLH 10 mg/m³ (dust) | |
| USA OSHA OSHA PEL (TWA) [1] 0.01 mg/m³ | |
| Copper (7440-50-8) | |
| USA ACGIH ACGIH OEL TWA 0.2 mg/m³ (fume) | |
| USA NIOSH NIOSH REL (TWA) | |
| 0.1 mg/m³ (fume) | |
| USA IDLH IDLH 100 mg/m³ (dust, fume and mist) | |
| USA OSHA OSHA PEL (TWA) [1] 0.1 mg/m³ (fume) | |
| 1 mg/m³ (dust and mist) | |
| Silica, amorphous (7631-86-9) | |
| USA NIOSH NIOSH REL (TWA) 6 mg/m³ | |
| USA IDLH IDLH 3000 mg/m ³ | |
| USA OSHA OSHA PEL (TWA) [1] 6 mg/m³ | |
| USA OSHA OSHA PEL (TWA) [2] 20 mppcf (80mg/m³/%SiO ₂) | |
| Polyvinyl chloride (9002-86-2) | |
| USA ACGIH ACGIH OEL TWA 1 mg/m³ (respirable particulate matter) | |
| USA ACGIH ACGIH chemical category Not Classifiable as a Human Carcinogen | |
| Rubber, natural (9006-04-6) | _ |
| USA ACGIH ACGIH OEL TWA 0.0001 mg/m³ (inhalable particulate matter) | |
| USA ACGIH ACGIH chemical category Skin - potential significant contribution to over | erall exposure by the |
| cutaneous route,dermal sensitizer | |

8.2. Exposure Controls

Appropriate Engineering Controls

: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Face shield.











Materials for Protective Clothing

Hand Protection

Other Information

Melting Point

Eye and Face Protection Skin and Body Protection Respiratory Protection : Chemically resistant materials and fabrics. Corrosion-proof clothing.

: Wear protective gloves.

: Chemical safety goggles and face shield.

: Wear suitable protective clothing.

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Consumer Exposure Controls

: Avoid contact during pregnancy/while nursing.: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Dhysical Ctata

Physical State: LiquidAppearance: No data availableOdor: No data availableOdor Threshold: No data availablepH: No data availableEvaporation Rate: No data available

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: No data available

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| Freezing Point | : No data available |
|--|---------------------|
| Boiling Point | : No data available |
| Flash Point | : No data available |
| Auto-ignition Temperature | : No data available |
| Decomposition Temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapor Pressure | : No data available |
| Relative Vapor Density at 20°C | : No data available |
| Relative Density | : No data available |
| Solubility | : No data available |
| Partition Coefficient: N-Octanol/Water | : No data available |
| Viscosity | : No data available |
| | |

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Batteries are non-reactive under normal conditions of use, storage and transport. If damaged or opened, may be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

10.4. Conditions to Avoid

Do not heat, expose to fire, disassemble, short circuit, immerse in water, or overcharge batteries. Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials

For exposure to the internal contents of the battery: Oxidizers. Metals. May be corrosive to metals. Bases. Reducing agents.

10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Metal oxides. Sulfur oxides. Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity (Oral): Harmful if swallowed.
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified

| Flooded Stationary Lead Acid Battery | | |
|--------------------------------------|-----------------------------|--|
| ATE (Oral) | 1,843.142 mg/kg body weight | |
| Sulfuric acid (7664-93-9) | | |
| LD50 Oral Rat | 2140 mg/kg | |
| Tin (7440-31-5) | | |
| LD50 Dermal Rat | > 2000 mg/kg | |
| Silver (7440-22-4) | | |
| LD50 Oral Rat | > 5000 mg/kg | |
| LD50 Dermal Rat | > 2000 mg/kg | |
| LC50 Inhalation Rat | > 5.16 mg/l/4h | |
| Copper (7440-50-8) | | |
| LC50 Inhalation Rat | > 5.11 mg/l/4h | |
| Lead oxide (PbO2) (1309-60-0) | | |
| ATE (Oral) | 500.00 mg/kg body weight | |
| ATE (Dust/Mist) | 1.50 mg/l/4h | |
| Ethene, homopolymer (9002-88-4) | | |
| LD50 Oral Rat | > 8000 mg/kg | |
| Silica, amorphous (7631-86-9) | | |
| LD50 Oral Rat | 7900 mg/kg | |

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| LD50 Dermal Rabbit | > 2000 mg/kg (No deaths) | | |
|--|---|--|--|
| 2-Propenenitrile, polymer with ethenylbenzene (9 | 2-Propenenitrile, polymer with ethenylbenzene (9003-54-7) | | |
| LD50 Oral Rat | 1800 mg/kg | | |
| Sulfur (7704-34-9) | | | |
| LD50 Oral Rat | > 3000 mg/kg | | |
| LD50 Dermal Rabbit | > 2000 mg/kg | | |
| LC50 Inhalation Rat | > 9.23 mg/l/4h | | |
| Calcium stearate (1592-23-0) | | | |
| LD50 Oral Rat | > 10 g/kg | | |
| LD50 Dermal Rat | > 2000 mg/kg | | |
| Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5) | | | |
| LD50 Oral Rat | > 5000 mg/kg | | |
| LD50 Dermal Rat | > 2000 mg/kg | | |
| LD50 Dermal Rabbit | > 5000 mg/kg | | |
| LC50 Inhalation Rat | > 5 mg/l/4h | | |

Skin Corrosion/Irritation: Causes severe skin burns.

Serious Eye Damage/Irritation: Causes serious eye damage. **Respiratory or Skin Sensitization:** Not classified. Not classified.

Germ Cell Mutagenicity: Not classified **Carcinogenicity:** May cause cancer (oral).

| Carcinogenicity: May cause cancer (oral). | | |
|---|--|--|
| Sulfuric acid (7664-93-9) | | |
| IARC group | 1 | |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. | |
| Lead (7439-92-1) | | |
| IARC group | 2A | |
| National Toxicology Program (NTP) Status | Reasonably anticipated to be Human Carcinogen. | |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. | |
| Lead oxide (PbO2) (1309-60-0) | | |
| IARC group | 2A | |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. | |
| Ethene, homopolymer (9002-88-4) | | |
| IARC group | 3 | |
| Silica, amorphous (7631-86-9) | | |
| IARC group | 3 | |
| Polystyrene (9003-53-6) | | |
| IARC group | 3 | |
| 2-Propenenitrile, polymer with ethenylbenzene (9003-54-7) | | |
| IARC group | 3 | |
| 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene (9003-56-9) | | |
| IARC group | 3 | |
| Styrene-butadiene copolymer (9003-55-8) | | |
| IARC group | 3 | |
| Polyvinyl chloride (9002-86-2) | | |
| IARC group | 3 | |
| | · | |

Reproductive Toxicity: May damage fertility or the unborn child. May cause harm to breast-fed children. (This material or its emissions may appear in breast milk of nursing mothers.)

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs (hematopoiesis, central nervous system, kidneys) through prolonged or repeated exposure (oral).

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Exposure to materials housed in battery: May be corrosive to the respiratory tract. Inhalation of vapors may cause respiratory irritation.

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Symptoms/Injuries After Skin Contact: Exposure to materials housed in battery: Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Exposure to materials housed in battery: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: Exposure to materials housed in battery: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: None expected under normal conditions of use. Exposure to materials housed in battery: May cause cancer (oral). May damage fertility or the unborn child. Causes damage to organs (hematopoiesis, central nervous system, kidneys) through prolonged or repeated exposure (oral).

<u>Lead:</u> Exposure can result in lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; encephalopathy; kidney disease; hypertension.

<u>Copper:</u> Overexposure to fumes may cause metal fume fever (chills, muscle aches, nausea, fever, dry throat, cough, weakness, lassitude); metallic or sweet taste; discoloration of skin and hair. Tissue damage of mucous membranes may follow chronic dust exposure.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Very toxic to aquatic life with long lasting effects.

| Sulfuric acid (7664-93-9) | |
|---|--|
| LC50 Fish 1 | 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) |
| EC50 - Crustacea [1] | 29 mg/l |
| LC50 Fish 2 | 42 mg/l (Exposure time: 96 h - Species: Gambusia affinis [static]) |
| NOEC Chronic Fish | 0.025 mg/l |
| Lead (7439-92-1) | |
| LC50 Fish 1 | 0.44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static]) |
| EC50 - Crustacea [1] | 600 μg/l (Exposure time: 48 h - Species: water flea) |
| LC50 Fish 2 | 1.17 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |
| Silver (7440-22-4) | |
| LC50 Fish 1 | 0.00155 – 0.00293 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 - Crustacea [1] | 0.00024 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| LC50 Fish 2 | 0.0062 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |
| NOEC Chronic Fish | 390 ng/l (Exposure time: 28d - Species: Pimephales promelas) |
| Copper (7440-50-8) | |
| LC50 Fish 1 | 0.0068 – 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas) |
| EC50 - Crustacea [1] | 0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| EC50 Other Aquatic Organisms 1 | 0.0426 (0.0426 – 0.0535) mg/l (Exposure time: 72 h - Species: Pseudokirchneriella |
| | subcapitata [static]) |
| LC50 Fish 2 | < 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Other Aquatic Organisms 2 | 0.031 (0.031 – 0.054) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella |
| | subcapitata [static]) |
| Silica, amorphous (7631-86-9) | |
| LC50 Fish 1 | 5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) |
| EC50 - Crustacea [1] | 7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia) |
| Sulfur (7704-34-9) | |
| LC50 Fish 1 | 866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) |
| EC50 - Crustacea [1] | 736 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 Fish 2 | 14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| Distillates, petroleum, hydrotreated heav | y naphthenic (64742-52-5) |
| LC50 Fish 1 | > 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| EC50 - Crustacea [1] | > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| - | |

12.2. Persistence and Degradability

| Flooded Stationary Lead Acid Battery | |
|--|----------------------------|
| Persistence and Degradability May cause long-term adverse effects in the environment. | |
| Copper (7440-50-8) | |
| Persistence and Degradability | Not readily biodegradable. |

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12.3. Bioaccumulative Potential

| Flooded Stationary Lead Acid Battery | | |
|--------------------------------------|-------------------------------|--|
| Bioaccumulative Potential | Not established. | |
| Sulfuric acid (7664-93-9) | | |
| BCF Fish 1 | (no bioaccumulation) | |
| Silica, amorphous (7631-86-9) | | |
| BCF Fish 1 | (no bioaccumulation expected) | |

12.4. Mobility in Soil

No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Treatment Methods: Seal leaking cell/battery in a plastic bag along with neutralizing material such as sodium bicarbonate, soda lime, or baking soda. Use appropriate personal protective equipment such as SCBA or Air Purifying respirator with acid gas cartridges. Follow local, federal, and state requirements for waste disposal. Follow National Emergency Response Guide, #138 for cells involved in an accident, have vented, or have exploded.

Sewage Disposal Recommendations: Disposal must be done according to official regulations.

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Batteries should be completely discharged prior to disposal and/or the terminals taped or capped to prevent short circuit. Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Proper Shipping Name : BATTERIES, WET, FILLED WITH ACID

Hazard Class : 8 **Identification Number** : UN2794

Label Codes : 8

Marine Pollutant : Marine pollutant

ERG Number : 154

14.2. In Accordance with IMDG

Proper Shipping Name : BATTERIES, WET, FILLED WITH ACID

Hazard Class:8Identification Number:UN2794Label Codes:8EmS-No. (Fire):F-A

EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-B

Marine Pollutant : Marine pollutant

14.3. In Accordance with IATA

Proper Shipping Name : BATTERIES, WET, FILLED WITH ACID

Identification Number : UN2794
Hazard Class : 8
Label Codes : 8

ERG Code (IATA) : 8L



*

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

| 13.1. O3 i ederal Negulations | |
|--------------------------------------|--|
| Flooded Stationary Lead Acid Battery | |
| SARA Section 311/312 Hazard Classes | Health hazard - Carcinogenicity |
| | Health hazard - Specific target organ toxicity (single or repeated |
| | exposure) |

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| cording to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and | Regulations | |
|--|---|--|
| | Health hazard - Reproductive toxicity | |
| | Physical hazard - Corrosive to metals | |
| | Health hazard - Serious eye damage or eye irritation | |
| | Health hazard - Skin corrosion or Irritation | |
| Sulfuric acid (7664-93-9) | | |
| Listed on the United States TSCA (Toxic Substances Contr | ol Act) inventory | |
| Listed on the United States SARA Section 302 | | |
| Subject to reporting requirements of United States SARA | Section 313 | |
| CERCLA RQ | 1000 lb | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 1000 lb | |
| SARA Section 313 - Emission Reporting | 1 % (acid aerosols including mists, vapors, gas, fog, and other airborne | |
| | forms of any particle size) | |
| Lead (7439-92-1) | | |
| Listed on the United States TSCA (Toxic Substances Contr | rol Act) inventory - Status: Active | |
| Subject to reporting requirements of United States SARA | Section 313 | |
| CERCLA RQ | 10 lb no reporting of releases of this hazardous substance is required | |
| | if the diameter of the pieces of the solid metal released is >100 μm | |
| SARA Section 313 - Emission Reporting | 0.1 % | |
| Tin (7440-31-5) | | |
| Listed on the United States TSCA (Toxic Substances Contr | ol Act) inventory - Status: Active | |
| Calcium (7440-70-2) | • | |
| Listed on the United States TSCA (Toxic Substances Contr | rol Act) inventory - Status: Active | |
| Silver (7440-22-4) | or rect inventory status rective | |
| Listed on the United States TSCA (Toxic Substances Contr | ral Act\invantany Status: Activa | |
| Subject to reporting requirements of United States SARA | · | |
| CERCLA RQ | 1000 lb < 100 um CERCLA/SARA RQ CHANGE TITLE | |
| SARA Section 313 - Emission Reporting | 1% | |
| | 1 /0 | |
| Copper (7440-50-8) | LA IV | |
| Listed on the United States TSCA (Toxic Substances Contr | · · · · · · · · · · · · · · · · · · · | |
| Subject to reporting requirements of United States SARA | | |
| CERCLA RQ | 5000 lb no reporting of releases of this hazardous substance is | |
| | required if the diameter of the pieces of the solid metal released is | |
| CARA Castian 212 Emission Reporting | >100 μm | |
| SARA Section 313 - Emission Reporting | 1 % | |
| Lead oxide (PbO2) (1309-60-0) | | |
| Listed on the United States TSCA (Toxic Substances Contr | ol Act) inventory - Status: Active | |
| Ethene, homopolymer (9002-88-4) | | |
| Listed on the United States TSCA (Toxic Substances Contr | | |
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the | |
| | Chemical Data Reporting Rule, (40 CFR 711). | |
| Silica, amorphous (7631-86-9) | | |
| Listed on the United States TSCA (Toxic Substances Contr | ol Act) inventory - Status: Active | |
| Water (7732-18-5) | | |
| Listed on the United States TSCA (Toxic Substances Contr | ol Act) inventory - Status: Active | |
| Polystyrene (9003-53-6) | | |
| Listed on the United States TSCA (Toxic Substances Contr | ol Act) inventory - Status: Active | |
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the | |
| | Chemical Data Reporting Rule, (40 CFR 711). | |
| 2-Propenenitrile, polymer with ethenylbenzene (9003-5 | | |
| Listed on the United States TSCA (Toxic Substances Contr | | |
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the | |
| | Chemical Data Reporting Rule, (40 CFR 711). | |
| 2-Propenenitrile, polymer with 1,3-butadiene and ether | | |
| - i i openemene, polymer with 1,3-butatiene and ether | | |
| Listed on the United States TSCA (Toxic Substances Contr | ol Act) inventory - Status: Active | |

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| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the | |
|--|---|--|
| | Chemical Data Reporting Rule, (40 CFR 711). | |
| Styrene-butadiene copolymer (9003-55-8) | | |
| Listed on the United States TSCA (Toxic Substances Conti | rol Act) inventory - Status: Active | |
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the | |
| | Chemical Data Reporting Rule, (40 CFR 711). | |
| Polyvinyl chloride (9002-86-2) | | |
| Listed on the United States TSCA (Toxic Substances Conti | rol Act) inventory - Status: Active | |
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the | |
| | Chemical Data Reporting Rule, (40 CFR 711). | |
| Sulfur (7704-34-9) | | |
| Listed on the United States TSCA (Toxic Substances Cont | rol Act) inventory - Status: Active | |
| Calcium stearate (1592-23-0) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active | | |
| Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active | | |

15.2. US State Regulations

Sulfuric acid (7664-93-9)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Lead (7439-92-1)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

Tin (7440-31-5)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

Calcium (7440-70-2)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

Silver (7440-22-4)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

Copper (7440-50-8)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

Lead oxide (PbO2) (1309-60-0)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Massachusetts Right To Know List

Silica, amorphous (7631-86-9)

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

2-Propenenitrile, polymer with ethenylbenzene (9003-54-7)

U.S. - New Jersey - Right to Know Hazardous Substance List

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Polyvinyl chloride (9002-86-2)

U.S. - New Jersey - Right to Know Hazardous Substance List

Sulfur (7704-34-9)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

California Proposition 65



WARNING: This product can expose you to Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

| Chemical Name (CAS No.) | Carcinogenicity | Developmental Toxicity | Female Reproductive Toxicity | Male Reproductive Toxicity |
|---------------------------|-----------------|---------------------------|---------------------------------|-------------------------------|
| Sulfuric acid (7664-93-9) | Х | | | |
| Lead (7439-92-1) | Х | X | X | Х |

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision

Other Information

: 07/25/2022

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR

1910.1200

GHS Full Text Phrases:

| H261 | In contact with water releases flammable gas | |
|------|---|--|
| H272 | May intensify fire; oxidizer | |
| H290 | May be corrosive to metals | |
| H302 | Harmful if swallowed | |
| H314 | Causes severe skin burns and eye damage | |
| H315 | Causes skin irritation | |
| H318 | Causes serious eye damage | |
| H332 | Harmful if inhaled | |
| H335 | May cause respiratory irritation | |
| H350 | May cause cancer | |
| H360 | May damage fertility or the unborn child | |
| H362 | May cause harm to breast-fed children | |
| H372 | Causes damage to organs through prolonged or repeated exposure | |
| H373 | May cause damage to organs through prolonged or repeated exposure | |
| H400 | Very toxic to aquatic life | |
| H402 | Harmful to aquatic life | |
| H410 | Very toxic to aquatic life with long lasting effects | |
| H412 | Harmful to aquatic life with long lasting effects | |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)

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