1. Identification

Product identifier: Lead Acid Battery Wet, Filled With Acid

Other means of identification:
- Synonyms: may include gel/absorbed electrolyte type lead acid batteries

Recommended use: Electric storage battery.

Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier: East Penn Manufacturing Company, Inc.
Address: 102 Deka Road, Lyon Station PA 19536
Telephone number: (610) 682-6361
Contact person: East Penn EHS Department
Emergency telephone number: USA/Canada: CHEMTREC (800) 424-9300, Outside USA 1 (703) 527-3887
E-mail: contactus@eastpenn-deka.com

2. Hazard(s) identification

Physical hazards: Explosive Chemical, Division 1.3

Health hazards:
- Acute toxicity, oral: Category 4
- Acute toxicity, inhalation: Category 4
- Skin corrosion/irritation: Category 1A
- Serious eye damage/eye irritation: Category 1
- Carcinogenicity: Category 1A
- Reproductive toxicity: Category 1A
- Specific target organ toxicity, single exposure: Category 1 (respiratory system)
- Specific target organ toxicity, repeated exposure: Category 3 respiratory tract irritation

Environmental hazards:
- Hazardous to the aquatic environment, acute hazard: Category 1
- Hazardous to the aquatic environment, long-term hazard: Category 1

OSHA defined hazards: Not classified.

Label elements

Signal word: Danger

Hazard statement: Harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. May cause cancer. May damage fertility or the unborn child. Causes damage to organs (respiratory system). Causes damage to organs (respiratory system) through prolonged or repeated exposure. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.

Precautionary statement: Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust/mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response
If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. Collect spillage.

Storage
Store in a well-ventilated place. Keep container tightly closed.

Disposal
Refer to manufacturer/supplier for information on recovery/recycling. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)
Under normal conditions of processing and use, exposure to the chemical constituents in this product is unlikely. The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

Supplemental information
In use, may form flammable/explosive vapor-air mixture.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead and lead compounds (inorganic)</td>
<td>7439-92-1</td>
<td>43 - 70</td>
</tr>
<tr>
<td>Electrolyte (Sulfuric acid)</td>
<td>7664-93-9</td>
<td>20 - 44</td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>3 - 5</td>
</tr>
</tbody>
</table>

Composition comments
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Content composition concentrations will vary with battery type/size.

4. First-aid measures

Inhalation
Exposure to contents of an open or damaged battery: Move injured person into fresh air and keep person under observation. Get medical attention if any discomfort continues.

Skin contact
Exposure to contents of an open or damaged battery: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists.

Eye contact
Exposure to contents of an open or damaged battery: Flush thoroughly with water for at least 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Get medical attention if irritation develops and persists.

Ingestion
Exposure to contents of an open or damaged battery: Rinse mouth thoroughly with water. DO NOT induce vomiting because of danger of aspirating liquid into lungs. Get medical attention immediately.

Most important symptoms/effects, acute and delayed
Under normal conditions of processing and use, exposure to the chemical constituents in this product is unlikely. The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues.

Indication of immediate medical attention and special treatment needed
Treat symptomatically.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media
Dry chemical, foam, carbon dioxide, water fog.

Unsuitable extinguishing media
Do NOT use water on live electrical circuits.

Specific hazards arising from the chemical
Batteries evolve flammable hydrogen gas during charging and may increase fire risk. Containers may explode when heated.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Fire fighting equipment/instructions
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
Like any sealed container, battery cells may rupture when exposed to excessive heat; this could result in the release of corrosive and flammable materials.
6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin.

Methods and materials for containment and cleaning up

Neutralize the spilled material before disposal. Sweep up or vacuum up spillage and collect in suitable container for disposal. Dispose of waste and residues in accordance with local authority requirements.

Environmental precautions

Prevent runoff from entering drains, sewers, or streams.

7. Handling and storage

Precautions for safe handling

In the event of damage resulting in a leak of exposed materials, avoid contact with contents of an open or damaged cell or battery. Keep away from heat, sparks and open flame. Do not allow conductive material to touch the battery terminals. A dangerous short-circuit may occur and cause battery failure and fire.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Protect containers from damage. Place cardboard between layers of stacked batteries to avoid damage and short circuits.

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead and lead compounds (inorganic) (CAS 7439-92-1) TWA</td>
<td>0.05 mg/m³</td>
</tr>
</tbody>
</table>

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony (CAS 7440-36-0) Electrolyte (Sulfuric acid) (CAS 7664-93-9) PEL</td>
<td>0.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>PEL</td>
<td>1 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony (CAS 7440-36-0) Electrolyte (Sulfuric acid) (CAS 7664-93-9) TWA</td>
<td>0.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Lead and lead compounds (inorganic) (CAS 7439-92-1) Thoracic fraction. TWA</td>
<td>0.05 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimony (CAS 7440-36-0) Electrolyte (Sulfuric acid) (CAS 7664-93-9) TWA</td>
<td>0.5 mg/m³</td>
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<tr>
<td>Lead and lead compounds (inorganic) (CAS 7439-92-1) TWA</td>
<td>0.05 mg/m³</td>
</tr>
</tbody>
</table>

Biological limit values

No biological exposure limits noted for the ingredient(s).

| ACGIH Biological Exposure Indices Determinant Specimen Sampling Time |
|--------------------------|-----------------|-----------------|--------------|
| Components | Value | Lead Blood | * |
| Lead and lead compounds (inorganic) (CAS 7439-92-1) 200 µg/l | 200 µg/l | Lead Blood | * |

* - For sampling details, please see the source document.

Appropriate engineering controls

Provide adequate ventilation. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection

None under normal conditions. Leak from a damaged or opened battery: Wear safety glasses with side shields (or goggles).
Skin protection
Hand protection
None under normal conditions. Leak from a damaged or opened battery: Wear appropriate chemical resistant gloves.

Skin protection
Other
None under normal conditions. Leak from a damaged or opened battery: Wear suitable protective clothing. Use of an impervious apron is recommended.

Respiratory protection
None under normal conditions.

Thermal hazards
When material is heated, wear gloves to protect against thermal burns.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance
Physical state
Solid.
Form
Sulfuric acid, liquid. Lead, solid.
Color
Not available.
Odor
Odorless.
Odor threshold
Not available.
pH
< 1
Melting point/freezing point
Not available.
Initial boiling point and boiling range
235 - 240 °F (112.78 - 115.56 °C) (Sulfuric acid)
Flash point
Below room temperature (as hydrogen gas).
Evaporation rate
< 1 (n-BuAc=1)
Flammability (solid, gas)
Upper/lower flammability or explosive limits
Flammability limit - lower (%)
4 % (Hydrogen)
Flammability limit - upper (%)
74 % (Hydrogen)
Vapor pressure
10 mm Hg
Vapor density
> 1 (Air=1)
Relative density
1.27 - 1.33
Solubility(ies)
Solubility (water)
100 % (Sulfuric acid)
Partition coefficient (n-octanol/water)
Not available.
Auto-ignition temperature
Not available.
Decomposition temperature
Not available.
Viscosity
Not available.
Other information
Explosive properties
Not explosive.
Oxidizing properties
Not oxidizing.

10. Stability and reactivity

Reactivity Chemical stability
The product is non-reactive under normal conditions of use, storage and transport.
Possibility of hazardous reactions
Stable at normal conditions.
Conditions to avoid
Overcharging, ignition sources.
Incompatible materials
11. Toxicological information

Information on likely routes of exposure

| Inhalation | Exposure to contents of an open or damaged battery: Harmful if inhaled. Causes severe respiratory tract irritation. |
| Skin contact | Exposure to contents of an open or damaged battery: Causes severe skin burns. |
| Eye contact | Exposure to contents of an open or damaged battery: Causes serious eye damage. |
| Ingestion | Exposure to contents of an open or damaged battery: Harmful if swallowed. |

Symptoms related to the physical, chemical and toxicological characteristics

Exposure to contents of an open or damaged battery: Dust may irritate the eyes and the respiratory system.

Information on toxicological effects

Acute toxicity

Exposure to contents of an open or damaged battery: Harmful if inhaled or swallowed.

Electrolyte (Sulfuric acid) (CAS 7664-93-9)

**Acute**

- **LD50**
  - Rat: 2140 mg/kg

Skin corrosion/irritation

Exposure to contents of an open or damaged battery: Causes severe skin burns.

Serious eye damage/eye irritation

Exposure to contents of an open or damaged battery: Causes serious eye damage.

Respiratory or skin sensitization

- Respiratory sensitization: No data available.
- Skin sensitization: No data available.
- Germ cell mutagenicity: No data available.

Carcinogenicity

The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen, (IARC category 1). This classification applies only to mists containing sulfuric acid and not to sulfuric acid or sulfuric acid solutions.

IARC Monographs. Overall Evaluation of Carcinogenicity

- Electrolyte (Sulfuric acid) (CAS 7664-93-9): 1 Carcinogenic to humans.
- Lead and lead compounds (inorganic) (CAS 7439-92-1): 2B Possibly carcinogenic to humans.

NTP Report on Carcinogens

- Electrolyte (Sulfuric acid) (CAS 7664-93-9): Known To Be Human Carcinogen.
- Lead and lead compounds (inorganic) (CAS 7439-92-1): Reasonably Anticipated to be a Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

- Not regulated.

Reproductive toxicity

None under normal conditions. Exposure to contents of an open or damaged battery: May damage fertility or the unborn child.

Specific target organ toxicity - single exposure

None under normal conditions. Exposure to contents of an open or damaged battery: Causes damage to organs (respiratory system).

Specific target organ toxicity - repeated exposure

None under normal conditions. Exposure to contents of an open or damaged battery: Causes damage to organs through prolonged or repeated exposure: Respiratory system.

Aspiration hazard

Due to the physical form of the product it is not an aspiration hazard.

Chronic effects

Exposure to contents of an open or damaged battery: Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues. Chronic inhalation of sulfuric acid mist may increase the risk of lung cancer.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Exposure to contents of an open or damaged battery: Very toxic to aquatic life with long lasting effects.
Components | Species | Test Results
--- | --- | ---
Lead and lead compounds (inorganic) (CAS 7439-92-1) | LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss) | 1.17 mg/l, 96 Hours

Persistence and degradability | The degradation half-life of the product is not known. Lead and its compounds are highly persistent in water.
Bioaccumulative potential | Bioaccumulation of lead occurs in aquatic and terrestrial animals and plants, but very little bioaccumulation occurs through the food chain.
Mobility in soil | If the product enters soil, one or more constituents will or may be mobile and may contaminate groundwater.
Mobility in general | The product is insoluble in water and will spread on water surfaces.
Other adverse effects | None known.

13. Disposal considerations

Disposal instructions | Recycle the batteries, as the primary disposal method. Neutralize electrolyte/sulfuric acid. Avoid discharge into water courses or onto the ground. Dispose of in accordance with local regulations.
Local disposal regulations | Empty containers should be taken to an approved waste handling site for recycling or disposal.
Hazardous waste code | RCRA: Spent lead-acid batteries are not regulated as hazardous waste when recycled. Depending upon circumstances, the following waste codes may apply: Spilled electrolyte/Sulfuric acid. D002: Corrosive waste
Waste from residues / unused products | Avoid discharge into water courses or onto the ground.
Contaminated packaging | Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number | UN2794
UN proper shipping name | Batteries, wet, filled with acid, electric storage
Transport hazard class(es)| 8
Class | 8
Subsidiary risk | -
Label(s) Packing | 8
Group Environmental hazards | -
Marine pollutant | No
Special precautions for user | Read safety instructions, SDS and emergency procedures before handling.

Packaging exceptions | 159
Packaging non bulk | 159
Packaging bulk | 159

IATA

UN number | UN2794
UN proper shipping name | Batteries, wet, filled with acid electric storage
Transport hazard class(es)| 8
Class | 8
Subsidiary risk | -
Packing group | -
Environmental hazards | No
ERG Code | 8L
Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. Packing Instruction: 870

IMDG

UN number | UN2794
UN proper shipping name | BATTERIES, WET, FILLED WITH ACID electric storage
Transport hazard class(es)| 8
Class | 8
Subsidiary risk | -
Packing group | -
Environmental hazards | -
Marine pollutant | No
EmS
Special precautions for user
F-A, S-B
Read safety instructions, SDS and emergency procedures before handling.
Packing Instruction: P801
Not applicable.

Transport in bulk according to
Annex II of MARPOL 73/78 and
the IBC Code

15. Regulatory information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

Hazardous Chemical Reporting Requirements apply when an Extremely Hazardous Substance is
present at a facility in an amount equal to or exceeding 500 pounds or the Threshold Planning
Quantity, whichever is lower per 40CFR370.10(a)(1)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Antimony (CAS 7440-36-0) Listed.
Electrolyte (Sulfuric acid) (CAS 7664-93-9) Listed.
Lead and lead compounds (inorganic) (CAS 7439-92-1) Listed.

SARA 304 Emergency release notification
Electrolyte (Sulfuric acid) (CAS 7664-93-9) 1000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
Lead and lead compounds (inorganic) (CAS 7439-92-1) Reproductive toxicity
Central nervous system
Kidney
Blood
Acute toxicity

Superfund Amendments and Reauthorization Act of 1986 (SARA)
SARA 302 Extremely hazardous substance
Chemical name | CAS number | Reportable quantity (pounds) | Threshold planning quantity (pounds) | Threshold planning quantity, lower value (pounds) | Threshold planning quantity, upper value (pounds)
--- | --- | --- | --- | --- | ---
Electrolyte (Sulfuric acid) | 7664-93-9 | 1000 | 1000 | |

SARA 311/312 Hazardous chemical
Classified hazard categories
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Carcinogenicity
Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)
Chemical name | CAS number | % by wt.
--- | --- | ---
Antimony | 7440-36-0 | 3 - 5
Electrolyte (Sulfuric acid) | 7664-93-9 | 20 - 44
Lead and lead compounds (inorganic) | 7439-92-1 | 43 - 70

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Antimony (CAS 7440-36-0)
Lead and lead compounds (inorganic) (CAS 7439-92-1)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Electrolyte (Sulfuric acid) (CAS 7664-93-9)

Safe Drinking Water Act (SDWA)
Not regulated.
Drug Enforcement Administration (DEA), List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)) and Chemical Code Number

- Electrolyte (Sulfuric acid) (CAS 7664-93-9) 6552

Drug Enforcement Administration (DEA), List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

- Electrolyte (Sulfuric acid) (CAS 7664-93-9) 20 %WV

DEA Exempt Chemical Mixtures Code Number

- Electrolyte (Sulfuric acid) (CAS 7664-93-9) 6552

US state regulations

US. Massachusetts RTK - Substance List

- Antimony (CAS 7440-36-0)
- Electrolyte (Sulfuric acid) (CAS 7664-93-9)
- Lead and lead compounds (inorganic) (CAS 7439-92-1)

US. New Jersey Worker and Community Right-to-Know Act

- Antimony (CAS 7440-36-0)
- Electrolyte (Sulfuric acid) (CAS 7664-93-9)
- Lead and lead compounds (inorganic) (CAS 7439-92-1)

US. Pennsylvania Worker and Community Right-to-Know Law

- Antimony (CAS 7440-36-0)
- Electrolyte (Sulfuric acid) (CAS 7664-93-9)
- Lead and lead compounds (inorganic) (CAS 7439-92-1)

US. Rhode Island RTK

- Antimony (CAS 7440-36-0)
- Electrolyte (Sulfuric acid) (CAS 7664-93-9)
- Lead and lead compounds (inorganic) (CAS 7439-92-1)

California Proposition 65

WARNING: Cancer and Reproductive Harm. www.P65warnings.ca.gov

PROPOSITION 65 WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. WASH HANDS AFTER HANDLING.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

- Arsenic (CAS 7440-38-2) Listed: February 27, 1987
- Electrolyte (Sulfuric acid) (CAS 7664-93-9) Listed: March 14, 2003
- Lead and lead compounds (inorganic) (CAS 7439-92-1) Listed: October 1, 1992

California Proposition 65 - CRT: Listed date/Developmental toxin

- Lead and lead compounds (inorganic) (CAS 7439-92-1) Listed: February 27, 1987

California Proposition 65 - CRT: Listed date/Female reproductive toxin

- Lead and lead compounds (inorganic) (CAS 7439-92-1) Listed: February 27, 1987

California Proposition 65 - CRT: Listed date/Male reproductive toxin

- Lead and lead compounds (inorganic) (CAS 7439-92-1) Listed: February 27, 1987

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

- Antimony (CAS 7440-36-0)
- Electrolyte (Sulfuric acid) (CAS 7664-93-9)
- Lead and lead compounds (inorganic) (CAS 7439-92-1)

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Country(s) or region</td>
<td>Inventory name</td>
<td>On inventory (yes/no)*</td>
</tr>
<tr>
<td>---------------------------</td>
<td>---------------------------------------------------------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Taiwan Chemical Substance Inventory (TCSI)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date: 19-September-2017
Revision date: 28-February-2018
Version #: 03
List of abbreviations:
- LD50: Lethal Dose 50%
- LC50: Lethal Concentration 50%
References:
- IARC Monographs. Overall Evaluation of Carcinogenicity
- Registry of Toxic Effects of Chemical Substances (RTECS)
Disclaimer:
The information in this SDS was obtained from sources which we believe are reliable, but no warranty or representation as to its accuracy or completeness is hereby given. Users should consider the information herein only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal, the safety and health of employees and customers and the protection of the environment.