SAFETY DATA SHEET

1. Identification

Product identifier: Valve Regulated Lead Acid Battery

Other means of identification:
- Non-Spillable Lead Acid Battery, Sealed Lead Acid Battery

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: Not classified.

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

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: The materials contained in this product may only represent a hazard if the integrity of the cell or battery is compromised; physically, thermally, or electrically abused. The below are the hazards anticipated under those conditions:

Harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. May cause respiratory irritation. May cause cancer. May damage fertility or the unborn child. May cause harm to breast-fed children. Causes damage to organs (respiratory system). Causes damage to organs (respiratory system) through prolonged or repeated exposure. 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. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Avoid contact during pregnancy/while nursing. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid release to the environment.

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

Hazard(s) not otherwise classified (HNOC)
None known.

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

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.

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</td>
<td>7439-92-1</td>
<td>60-75</td>
</tr>
<tr>
<td>Sulphuric acid</td>
<td>7664-93-9</td>
<td>5-15</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. The manufacturer has claimed the exact percentage as trade secret under the OSHA Hazard Communication Standard.

4. First-aid measures

Inhalation
Exposure to contents of an open or damaged battery: Move injured person into fresh air and keep person calm 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. Abdominal pain. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms include itching, burning, redness and tearing. May cause respiratory irritation. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues. Permanent eye damage including blindness could result.

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
In the event that a battery is ruptured and the internal components are exposed, DO NOT USE WATER. Do not use carbon dioxide directly on cells.
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.

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

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

General fire hazards
- Use standard firefighting procedures and consider the hazards of other involved materials.
- 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.
- 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.

Methods and materials for containment and cleaning up
- Prevent runoff from entering drains, sewers, or streams.

Environmental precautions

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. Pregnant or breastfeeding women must not handle this product.

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

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead and lead compounds</td>
<td>0.05 mg/m3</td>
</tr>
<tr>
<td>(CAS 7439-92-1)</td>
<td></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>Sulphuric acid (CAS 7664-93-9)</td>
<td>PEL</td>
<td>1 mg/m3</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead and lead compounds</td>
<td>TWA</td>
<td>0.05 mg/m3</td>
<td></td>
</tr>
<tr>
<td>(CAS 7439-92-1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulphuric acid (CAS 7664-93-9)</td>
<td>TWA</td>
<td>0.2 mg/m3</td>
<td>Thoracic fraction.</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead and lead compounds</td>
<td>TWA</td>
<td>0.05 mg/m3</td>
</tr>
<tr>
<td>(CAS 7439-92-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulphuric acid (CAS 7664-93-9)</td>
<td>TWA</td>
<td>1 mg/m3</td>
</tr>
</tbody>
</table>

Biological limit values

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead and lead compounds</td>
<td>200 µg/l</td>
<td>Lead</td>
<td>Blood</td>
<td>*</td>
</tr>
<tr>
<td>(CAS 7439-92-1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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) and a face shield.

Skin protection

Hand protection
None under normal conditions. Leak from a damaged or opened battery: Wear appropriate chemical resistant gloves. Glove material: Nitrile rubber Layer thickness: 0.152 or 0.381 mm Breakthrough time: 240 or 480 min. Suitable gloves can be recommended by the glove supplier.

Skin protection

Other
None under normal conditions. Leak from a damaged or opened battery: Wear appropriate chemical resistant 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, gelatinous. 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 (112.8 - 115.6 °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
The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability
Stable at normal conditions.
Possibility of hazardous reactions
Will not occur.

Conditions to avoid
Overcharging. Ignition sources.

Incompatible materials

Hazardous decomposition products

11. Toxicological information

Information on likely routes of exposure

- **Inhalation**: Exposure to contents of an open or damaged battery: Harmful if inhaled.
- **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
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. Exposure to contents of an open or damaged battery: Dust may irritate the eyes and the respiratory system. Abdominal pain. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues.

Information on toxicological effects

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulphuric acid (CAS 7664-93-9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>2140 mg/kg</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exposure to contents of an open or damaged battery: Causes severe skin burns.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Serious eye damage/eye irritation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exposure to contents of an open or damaged battery: Causes serious eye damage.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Respiratory or skin sensitization</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The International Agency for Research on Cancer (IARC) has classified &quot;strong inorganic acid mists containing sulfuric acid&quot; 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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**IARC Monographs. Overall Evaluation of Carcinogenicity**
- Lead and lead compounds (CAS 7439-92-1) 2B Possibly carcinogenic to humans.
- Sulphuric acid (CAS 7664-93-9) 1 Carcinogenic to humans.

**NTP Report on Carcinogens**
- Lead and lead compounds (CAS 7439-92-1) Reasonably Anticipated to be a Human Carcinogen.
- Sulphuric acid (CAS 7664-93-9) Known To Be Human Carcinogen.

Not listed.

Reproductive toxicity
None under normal conditions. Exposure to contents of an open or damaged battery: May cause harm to breastfed babies. 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). May cause respiratory irritation.

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.

Further information
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.

12. Ecological information

Ecotoxicity
None under normal conditions. Exposure to contents of an open or damaged battery: Very toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead and lead compounds (CAS 7439-92-1)</td>
<td>Rainbow trout, donaldson trout (Oncorhynhus mykiss)</td>
<td>LC50 1.17 mg/l, 96 Hours</td>
</tr>
</tbody>
</table>

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
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

General information
DOT: Not regulated per 49 CFR 173.159a.
IATA/ICAO: Not regulated per Special Provision A67.
IMDG: Not regulated per Special Provision #238.

Label: NONSPILLABLE

15. Regulatory information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. 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)
Lead and lead compounds (CAS 7439-92-1) 0.1 % Annual Export Notification required.
CERCLA Hazardous Substance List (40 CFR 302.4)

Lead and lead compounds (CAS 7439-92-1) Listed.
Sulphuric acid (CAS 7664-93-9) Listed.

SARA 304 Emergency release notification

SULFURIC ACID (CAS 7664-93-9) 1000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Lead and lead compounds (CAS 7439-92-1) Reproductive toxicity
Central nervous system
Kidney
Blood
Acute toxicity

Toxic Substances Control Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated “active”.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>Reportable quantity (pounds)</th>
<th>Threshold planning quantity (pounds)</th>
<th>Threshold planning quantity, lower value (pounds)</th>
<th>Threshold planning quantity, upper value (pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulphuric acid</td>
<td>7664-93-9</td>
<td>1000</td>
<td>1000</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead and lead compounds</td>
<td>7439-92-1</td>
<td>60 - 75</td>
</tr>
<tr>
<td>Sulphuric acid</td>
<td>7664-93-9</td>
<td>5 - 15</td>
</tr>
</tbody>
</table>

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Lead and lead compounds (CAS 7439-92-1)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Sulphuric acid (CAS 7664-93-9)

Safe Drinking Water Act (SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

- Sulphuric acid (CAS 7664-93-9) 6552

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

- Sulphuric acid (CAS 7664-93-9) 20 %WV

DEA Exempt Chemical Mixtures Code Number

- Sulphuric acid (CAS 7664-93-9) 6552

US state regulations

US. Massachusetts RTK - Substance List

Lead and lead compounds (CAS 7439-92-1)
Sulphuric acid (CAS 7664-93-9)

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

Lead and lead compounds (CAS 7439-92-1)
Sulphuric acid (CAS 7664-93-9)

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

Lead and lead compounds (CAS 7439-92-1)
Sulphuric acid (CAS 7664-93-9)

US. Rhode Island RTK

Lead and lead compounds (CAS 7439-92-1)
California Proposition 65

**WARNING:** Cancer and Reproductive Harm. www.P65warnings.ca.gov or 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**
- Lead and lead compounds (CAS 7439-92-1) Listed: October 1, 1992
- Sulphuric acid (CAS 7664-93-9) Listed: March 14, 2003

**California Proposition 65 - CRT: Listed date/Developmental toxin**
- Lead and lead compounds (CAS 7439-92-1) Listed: February 27, 1987

**California Proposition 65 - CRT: Listed date/Female reproductive toxin**
- Lead and lead compounds (CAS 7439-92-1) Listed: February 27, 1987

**California Proposition 65 - CRT: Listed date/Male reproductive toxin**
- Lead and lead compounds (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))**
- Lead and lead compounds (CAS 7439-92-1)
- Sulphuric acid (CAS 7664-93-9)

### 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>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:** 31-August-2020
- **Version #:** 03
- **List of abbreviations:**
  - LC50: Lethal Concentration 50%.
  - LD50: Lethal Dose 50%.
- **References:**
  - IARC Monographs. Overall Evaluation of Carcinogenicity
  - Registry of Toxic Effects of Chemical Substances (RTECS)
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