

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product Identifier

- 1.1.1 Trade name/designation:  
Valve Regulated Lead Battery

### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

- 1.2.1 Relevant identified uses:

Power sport batteries  
General Purpose  
Deep Cycle  
Medical Equipment  
Standby Applications  
SLI

- 1.2.2 Uses advised against:  
Any other not listed above

### 1.3 Details of the supplier

Manufactured for:  
Universal Power Group, Inc.  
488 S Royal Lane  
Coppell, TX 75019  
469-892-1122  
www.upgi.com

### 1.4 Emergency Telephone Number:

US/CAN: 1-800-424-9300  
Countries outside of US/CAN: 1-703-527-3887

## Section 2: Hazards identification

*Material is an article. No health effects are expected during normal use of this product as sold. Hazardous exposure may occur when the product is heated, oxidized or otherwise processed, damaged or subjected to misuse. Follow manufacturer's instructions for installation, service and use.*

### 2.1 Classification of the substance or mixture:

- 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]  
8B: Non flammable corrosive materials
- 2.1.2 Classification according to 67/548/EEC or 1999/45/EC  
Xi: Irritating

### 2.2 Label elements

- 2.2.1 Labeling according to Regulation (EC) No 1272/2008

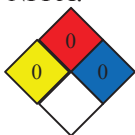
Product identifier:

Valve Regulated Lead Battery

Hazard pictograms:



NFPA:



WHMIS:



Signal word:

CAUTION

Hazard statements:

Contact with internal components may cause irritation or severe burns.

Irritating to eyes, respiratory system, and skin.

Precautionary statements:

Keep out of reach of children.

Keep containers tightly closed.

Avoid heat, sparks, and open flame while charging batteries.

Avoid contact with internal acid.

2.3

Other hazards:

Adverse human health effects and symptoms:

**Inhalation:** (Acute): Under normal conditions of use, no health effects are expected. Contents of an open battery can cause respiratory irritation.

(Chronic): Repeated and prolonged exposure may cause irritation.

**Skin:** (Acute): Under normal conditions of use, no health effects are expected.

(Chronic): No data available

**Eye:** (Acute): Under normal conditions of use, no health effects are expected. Exposure to dust may cause irritation.

(Chronic): No data available.

**Ingestion:** (Acute): Under normal conditions of use, no health effects are expected. Lead ingestion may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping.

(Chronic): No data available

Symptoms of lead toxicity include headache, fatigue, abdominal pain, loss of appetite, muscular aches and weakness, sleep disturbances and irritability. Lead absorption may cause nausea, weight loss, abdominal spasms, and pain in arms, legs and joints.

Effects of chronic lead exposure may include central nervous system (CNS) damage, kidney dysfunction, anemia, neuropathy particularly of the motor nerves with wrist drop, and potential reproductive effects.

Acute exposure to sulfuric acid causes severe irritation, burns and permanent tissue damage to all routes of exposure.

Chronic exposure to sulfuric acid may cause erosion of tooth enamel, inflammation of nose, throat and respiratory system.

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### Section 3: Composition/information on ingredients

#### 3.1 Description of the mixture:

| CAS No    | EC No     | % [weight] | Name          | WHMIS Classifications  | Classification according to CLP (1272/2008)   |
|-----------|-----------|------------|---------------|--|---|
| 7439-92-1 | 231-100-4 | 63-78%     | Lead          | D2A  | Xn, N, T; R20/22, R33, R50, R50/53, R53, R61, R62; Repr. Cat. 1, Repr. Cat. 3; S53, S45, S60, S61 except those specified elsewhere in the annex |
| 7664-93-9 | 231-639-5 | 10-30%     | Sulfuric Acid | D1A, E(including >51%, <=51%)  | C; R35; S1/2, S26, S30, S45   |
| 7440-36-0 | 231-146-5 | 0.2%       | Antimony      | Uncontrolled product according to WHMIS classification criteria; D1B(powder) | Xn, N; R20/22, R51/53; S2, S61 except tetroxide, pentoxide, trisulphide, pentasulphide, and those specified elsewhere in the annex              |
| 7440-31-5 | 231-141-8 | 0.006%     | Tin           | Uncontrolled product according to WHMIS classification criteria              | Not Listed  |
| 7440-38-2 | 231-148-6 | 0.003%     | Arsenic       | D1A, D2A   | T, N; R23/25, R50/53; S1/2, S20/21, S28, S45, S60, S61  |
| 7440-70-2 | 231-179-5 | 0.002%     | Calcium       | B6, E  | F; R15; S2, S8, S24/25, S43   |

Case material composes 5-6% of the article. Case material includes the following components: 1-Propene, homopolymer (9003-07-0); Polystyrene (9003-53-6); Acrylonitrile, polymer with styrene (9003-54-7); Acrylonitrile, polymer with 1,3-butadiene and styrene (9003-56-9); Styrene polymer with 1,3-butadiene and styrene (9003-56-9); Styrene polymer with 1,3-butadiene (Kraton) (9003-55-8); Ethylene, chloro-, polymer (9003-86-2); Hard Rubber; Polycarbonate; Polyethylene.

### Section 4: First Aid Measures

#### 4.1 Description of first aid measures.

##### 4.1.1 Eye contact:

First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If contact with material occurs flush eyes with water. Get medical attention.

##### 4.1.2 Inhalation:

First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, move person to fresh air. Administer oxygen if breathing is difficult. Get medical attention.

##### 4.1.3 Skin contact:

First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If exposure to electrolyte (sulfuric acid) occurs, flush with large quantities of water for 15 minutes. Immediately remove contaminated clothing and shoes. If exposure to lead component occurs, wash contaminated skin with plenty of soap and water.

##### 4.1.4 Ingestion:

First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If electrolyte (sulfuric acid) portion of battery is ingested give large quantities of water DO NOT induce vomiting. Get medical attention immediately. If lead portion of battery is ingested get medical attention immediately.

- 4.1.5 Self-protection of the first aider:  
If artificial respiration is required use a pocket mask equipped with a one-way valve or other proper respiratory medical device.

### **Section 5: Firefighting measures**

- 5.1 Extinguishing media:  
5.1.1 Suitable extinguishing media:  
CO<sub>2</sub>, dry chemical or foam  
5.1.2 Unsuitable extinguishing media:  
Avoid using water  
5.2 Special hazards arising from the substance or mixture.  
5.2.1 Hazardous combustion products:  
Lead portion of battery will likely produce toxic metal fume, vapor or dust.  
5.3 Advice for fire-fighters:  
If batteries are on charge, shut off power. Do not allow metallic materials to simultaneously contact negative and positive terminals of cells and batteries.  
Wear a positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing will only provide limited protection.  
5.4 Additional information:  
Highly flammable hydrogen gas is generated during charging and operation of batteries. Water applied to electrolyte generates heat and causes it to splatter.

### **Section 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures  
6.1.1 For non-emergency personnel:  
Protective equipment:  
Wear chemical gloves  
6.1.2 For emergency responders  
Personal protective equipment:  
Wear chemical gloves, goggles, acid resistant clothing and boots, respirator if insufficient ventilation.  
6.2 Environmental precautions:  
Prevent entry into waterways, sewers, basements or confined areas. Runoff from fire control and dilution water may be toxic and corrosive and may cause adverse environmental impacts.  
6.3 Methods and material for containment and cleaning up:  
6.3.1 For containment:  
In the event of a battery rupturing; stop the leak if you can do it without risk. Absorb with earth, sand or other non-combustible material. Cautiously neutralize spilled liquid.  
6.3.2 For cleaning up:  
Dispose of in accordance with local, State, and national regulations.

### Section 7: Handling and storage

- 7.1 Precautions for safe handling
- 7.1.1 Protective measures:  
Handle batteries cautiously. Do not tip to avoid spills (if filled with electrolyte). Avoid contact with internal components. Wear protective clothing when filling or handling batteries. Follow manufacturer's instructions for installation and service. Do not allow conductive material to touch the battery terminals. Short circuit may occur and cause battery failure and fire.
- 7.1.2 Advice on general occupational hygiene:  
Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Eyewash stations and safety showers should be provided with unlimited water supply. Handle in accordance with good industrial hygiene and safety practice.
- 7.2 Conditions for safe storage, including any incompatibilities:  
Technical measures and storage conditions:  
Store in a cool/low-temperature, well-ventilated place away from heat and ignition sources. Batteries should be stored under roof for protection against adverse weather conditions. Place cardboard between layers of stacked batteries to avoid damage and short circuits. Store batteries on an impervious surface.  
Storage class:  
Class 8B: Non-flammable corrosive materials

### Section 8: Exposure controls/personal protection

- 8.1 Control parameters
- 8.1.1 Occupational exposure limits:

| Limit value type<br>(country of origin)   | Substance name | EC-No.    | CAS-No    | Limit value   | Monitoring and<br>observation<br>processes |
|---|----------------|-----------|-----------|---|--|
| TWA(ACGIH USA)<br>TWA (CA)<br>TWA (FI)<br>STEL(ME)<br>TWA (ME)<br>TWA (NIOSH USA)   | Tin            | 231-141-8 | 7440-31-5 | 2 mg/m <sup>3</sup><br>2 mg/m <sup>3</sup><br>2 mg/m <sup>3</sup><br>4 mg/m <sup>3</sup><br>2 mg/m <sup>3</sup><br>2 mg/m <sup>3</sup>  |  |
| STEL (CH)<br>TWA (CH)<br>TWA (ACGIH USA)<br>TWA (CA)<br>TWA (FI)<br>TWA (JP)<br>TWA(ME)<br>TWA(NIOSH USA)<br>TWA (OSHA USA) | Antimony       | 231-146-5 | 7440-36-0 | 1.5 mg/m <sup>3</sup><br>0.5 mg/m <sup>3</sup><br>0.5 mg/m <sup>3</sup><br>0.5 mg/m <sup>3</sup><br>0.5 mg/m <sup>3</sup><br>0.1 mg/m <sup>3</sup><br>0.5 mg/m <sup>3</sup><br>0.5 mg/m <sup>3</sup><br>0.5 mg/m <sup>3</sup> |  |
| TWA (ACGIH)<br>TWA (CA ON)<br>STEL(CA QU)<br>TWA(CA QU)<br>STEL (CH)<br>TWA(CH)<br>STEL(FI)<br>TWA(FI)                      | Sulfuric Acid  | 231-639-5 | 7664-93-9 | 0.2 mg/m <sup>3</sup><br>0.2 mg/m <sup>3</sup><br>3 mg/m <sup>3</sup> 1<br>mg/m <sup>3</sup> 2<br>mg/m <sup>3</sup> 1<br>mg/m <sup>3</sup> 1<br>mg/m <sup>3</sup><br>0.2 mg/m <sup>3</sup>                                    | Thoracic fraction<br>Thoracic              |

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|  |      |           |           |  |  |
|--|------|-----------|-----------|--|--|
| Ceiling(DE)<br>MAK(DE)<br>Ceiling(JP)<br>TWA(ME)<br>TWA(NIOSH)<br>TWA(OSHA)  |      |           |           | 0.1 mg/m <sup>3</sup> peak<br>0.1 mg/m <sup>3</sup><br>1 mg/m <sup>3</sup> 1<br>mg/m <sup>3</sup> 1<br>mg/m <sup>3</sup> 1<br>mg/m <sup>3</sup>  | Inhalable fraction<br>Inhalable fraction   |
| TWA (ACGIH)<br>TWA(CA ON)<br>TWA(CA QU)<br>STEL(CH)<br>TWA(CH)<br>TWA(FI)<br>Biological Limit Value<br>(FI)<br>TWA(JP)<br>TWA(ME)<br>TWA(NIOSH)<br>TWA(OSHA) | Lead | 231-100-4 | 7439-92-1 | 0.05 mg/m <sup>3</sup><br>0.05 mg/m <sup>3</sup><br>0.05 mg/m <sup>3</sup><br>0.15 (0.09) mg/m <sup>3</sup><br>0.05(0.03)mg/m <sup>3</sup><br>0.1 mg/m <sup>3</sup><br><br>1.4 umol/L<br>0.1 mg/m <sup>3</sup><br>0.15 mg/m <sup>3</sup><br>0.05 mg/m <sup>3</sup><br>50 ug/m <sup>3</sup> | Designated substance<br>regulation<br><br>Dust (fume)<br><br>Dust (fume)<br><br>Dust<br><br><br>As Pb, dust and fume |

### 8.2 Exposure controls:

#### 8.2.1 Appropriate engineering controls:

Store and charge in a well-ventilated area. General dilution ventilation is acceptable.

#### 8.2.2 Personal protective equipment:

##### 8.2.2.1 Pictograms:



##### 8.2.2.2 Eye/Face protection:

Wear protective eyewear (goggles, face shield or safety glasses with side shields).

##### 8.2.2.3 Skin protection:

Wear protective gloves.

No skin protection is ordinarily required under normal conditions of use. In accordance with industrial hygiene practices. If contact with leaking battery is expected, precautions should be taken to avoid skin contact. Under severe exposure or emergency conditions, wear acid resistant clothing and boots.

##### 8.2.2.4 Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

## Section 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties:

#### 9.1.1 Appearance

Physical state: Solid      Color: Clear (electrolyte)      Odor: Odorless      Odor threshold: No Data

#### 9.1.2 Safety relevant basic data

pH (20 °C): No Data

Melting point/range (°C): No Data

Initial boiling point/range (°C): 95-95.555

Decomposition temperature (°C): No Data

Flash point (°C): No Data



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Ignition temperature (°C): No Data.  
Vapor pressure (hPa): 10 mmHg.  
Vapor density (air = 1): 1  
Density (g/cm<sup>3</sup>) at °C: 75.8523-84.2803 lbs/ft<sup>3</sup>.  
Bulk density (kg/m<sup>3</sup>): No Data.  
Water solubility (20°C in g/l): 100%  
Solubility(ies): No Data.  
Partition coefficient: No Data.  
N-Octanol/Water (log Po/w): No Data.  
Viscosity, dynamic (mPa s): No Data.

9.1.3 Physical hazards:  
Flammable gases.  
Metal corrosion.

9.2 Other safety information:  
Properties of explosive atmospheres (mixtures):  
Gases and vapors: No Data.  
Dusts: No Data.  
Physical chemical properties of nanoparticles: No Data.  
Limiting oxygen concentration: No Data.  
Bulk density: No Data.  
Solubility in different media: No Data.  
Stability in organic solvents and identity of relevant degradation products: No Data.  
Evaporation rate: No Data.  
Conductivity: No Data.  
Surface tension: No Data.  
Dissociation constant in water (pKa): No Data.  
Oxidation-reduction Potential: No Data.  
Fat solubility (solvent – oil to be specified): No Data.  
Critical temperature: No Data.

### Section 10: Stability and reactivity

- 10.1 Reactivity:  
Not reactive
- 10.2 Chemical stability:  
Stable under normal temperatures and pressures.
- 10.3 Possibility of hazardous reactions:  
Hazardous polymerization will not occur.
- 10.4 Conditions to avoid:  
Prolonged overcharge, sources of ignition.
- 10.5 Incompatible materials:  
Sulfuric acid: Contact with combustible and organic materials may cause fire and explosion. Also reacts violently with strong reducing agents, metals, sulfur trioxide, strong oxidizers and water. Contact with metals may product toxic sulfur dioxide fumes and may release flammable hydrogen gas.  
Lead compounds: Avoid contact with strong bases, acids, combustible organic materials, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen, reducing agents and water.
- 10.6 Hazardous decomposition products:  
Lead compounds exposed to high temperatures will likely produce toxic metal fume, vapor or dust; contact with strong acid/base or presence of nascent hydrogen may generate highly toxic arsine gas.  
Sulfuric acid: Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide and hydrogen.

### Section 11: Toxicological Information

#### 11.1 Information on toxicological effects:

| Lead (7439-92-1)                      | Effect dose /               | Species    | Method            | Time                    |
|---------------------------------------|-----------------------------|------------|-------------------|-------------------------|
| Acute oral toxicity                   | 155 mg/kg                   | Human      | LDLo              |                         |
| Acute oral toxicity                   | 1050 ug/kg                  | Rat        | TDLo              | 30 Weeks(int.)          |
| Acute inhalative toxicity (dust/mist) | 0.011 mg/m3                 | Human      | LCLo              | 26 Weeks (int.)         |
| Mutagen                               | 23 ug/m3                    | Rat        | Inhalation        | 16 Weeks                |
| Reproductive                          | 790 mg/kg                   | Rat        | TDLo (Oral)       |                         |
| Reproductive                          | 3 mg/m3                     | Rat        | TCLo (Inhalation) | 1-21 Days preg.         |
| Sulfuric Acid (7664-93-9)             | Effect dose / Concentration | Species    | Method            | Time                    |
| Acute oral toxicity                   | 2140 mg/kg                  | Rat        | LD50              |                         |
| Acute inhalative toxicity (vapor)     | 30 mg/m3                    | Guinea Pig | LCLo              | 7 Days (con.)           |
| Acute inhalative toxicity (vapor)     | 510 mg/m3                   | Rat        | LC50              | 2 Hours                 |
| Acute inhalative toxicity (vapor)     | 3 mg/m3                     | Human      | LCLo              | 24 Weeks                |
| Irritation                            | 5 mg                        | Rabbit     | SEV (eye)         | 30 second rinse         |
| Irritation                            | 250 ug                      | Rabbit     | SEV (eye)         |                         |
| Antimony (7440-36-0)                  | Effect dose / Concentration | Species    | Method            | Time                    |
| Acute oral toxicity                   | 100 mg/kg                   | Rat        | LD50              |                         |
| Acute inhalative toxicity (dust/mist) | 13.5 mg/m3                  | Human      | LCLo              | 4 Hours                 |
| Tumorigen/Carcinogen                  | 50 mg/m3                    | Rat        | TCLo              | 7 hours 52 weeks (int.) |



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| Arsenic (7440-38-2) | Effect dose / Concentration | Species | Method | Time           |
|---------------------|-----------------------------|---------|--------|----------------|
| Acute oral toxicity | 763 mg/kg                   | Rat     | LD50   |                |
| Acute oral toxicity | 5 mg/kg                     | Rat     | LDLo   |                |
| Mutagen             | 0.211 mg/L                  | Human   | Oral   | 15 Years       |
| Reproductive        | 605 ug/kg                   | Rat     | TDLo   | 35 weeks preg. |

### 11.2 Other information:

#### 11.2.1 Carcinogenic Effects:

The International Agency for Research on Cancer (IARC) has classified “strong inorganic acid mist containing sulfuric acid” as a Category 1 carcinogen, a substance that is carcinogenic to humans. **This classification does not apply to liquid forms of sulfuric acid or sulfuric acid solutions contained within a battery.** Batteries subjected to abusive charging at excessively high currents for prolonged periods without vent caps in place may create a surrounding atmosphere of the offensive strong inorganic acid mist containing sulfuric acid.

| Carcinogenic Effects |           |                              |   |
|----------------------|-----------|------------------------------|---|
|                      | CAS       | IARC                         | NTP   |
| Sulfuric acid        | 7664-93-9 | Group 1-Carcinogenic         | Not established                               |
| Lead                 | 7439-92-1 | Group 2A-Probable Carcinogen | Reasonably anticipated to be human carcinogen |

### 11.2.2 Routes of exposure:

#### 11.2.2.1 In case of ingestion:

Acute (Immediate): Under normal conditions of use, no health effects are expected. Lead ingestion may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping.

Chronic (Delayed): No data available

#### 11.2.2.2 In case of skin contact:

Acute (Immediate): Under normal conditions of use, no health effects are expected.

Chronic (Delayed): No data available

#### 11.2.2.3 In case of inhalation:

Acute (Immediate): Under normal conditions of use, no health effects are expected. Contents of an open battery can cause respiratory irritation.

Chronic (Delayed): Repeated and prolonged exposure may cause irritation.

#### 11.2.2.4 In case of eye contact:

Acute (Immediate): Under normal conditions of use, no health effects are expected. Exposure to dust may cause irritation.

Chronic (Delayed): No data available

## Section 12: Ecological information

### 12.1 Toxicity:

Aquatic toxicity.

#### 12.1.1 Substances:

Acute (short-term) toxicity: Sulfuric Acid

| Effect dose | Exposure time | Species           | Method | Evaluation | Remark                                 |
|-------------|---------------|-------------------|--------|------------|--|
| 82 mg/L     | 24 Hours      | Brachydanio rerio | LC50   |            |  |
| 22 mg/L     | 96 Hours      | Cyprinus carpio   | LOEC   |            | Lowest observable effect concentration |

### Section 13: Disposal considerations

- 13.1 Waste treatment methods:
- 13.1.1 Product/packaging disposal:  
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- 13.1.2 Waste codes/waste designations according to EWC/AVV:  
 16 06 01\*
- 13.2 Additional information:  
 Any waste marked with an asterisk (\*) is considered as a hazardous waste pursuant to Directive 91/689/EEC on hazardous waste, and subject to the provisions of that Directive unless Article 1(5) of that Directive applies.

### Section 14: Transport Information

- 14.1 Land transport (CFR 49: DOT)  
 These batteries have been tested and meet the non-spillable criteria listed in CFR49, 173.159 (d) (3) (i) and (ii). Non-spillable batteries are excepted from CFR 49, Subchapter C requirements, provided that the following criteria are met:
  - 1.) The batteries must be protected against short circuits and securely packaged.
  - 2.) The batteries and their outer packaging must be plainly and durably marked "NON-SPILLABLE" or "NONSPILLABLE BATTERY".
 UN-No: UN2800  
 Proper shipping name: Batteries, wet, non-spillable.  
 Class(es): 8  
 Hazard label(s): 8  
 Special provision(s)/Exceptions: 159a
- 14.2 Land transport (ADR/RID/GGVSEB):  
 Non-spillable batteries are not subject to the requirements of ADR if, at a temperature of 55C, the electrolyte will not flow from a ruptured or cracked case and there is no free liquid to flow and if, as packaged for carriage, the terminals are protected from short circuit.  
 UN-No: UN2800  
 Proper shipping name: Batteries, Wet, Not-Spillable.  
 Class(es): 8  
 Classification Code: C11  
 Hazard label(s): 8  
 Special provision(s): 238, 295, 598

- 14.3 Land transport (TDG):  
 These batteries have been tested and meet the non-spillable criteria. Non-spillable batteries are excepted provided that the following criteria are met:  
 1.) The batteries must be protected against short circuits and securely packaged  
 2.) The batteries and their outer packaging must be plainly and durably marked "NON -SPILLABLE" or "NON SPILLABLE BATTERY."  
 UN-No: UN2800  
 Proper shipping name: Batteries, Wet, Non-Spillable.  
 Class(es): 8  
 Hazard label(s): 8  
 Special provision(s): 39
- 14.4 Sea transport (IMDG-Code/GGVSee):  
 These batteries have been tested and meet the non-spillable criteria listed in IMDG Code Special Provision 238.1 and .2; therefore, are not subject to the provisions of the IMDG Code provided that the battery terminals are protected against short circuits when packaged for transport.  
 UN No: UN2800  
 Proper shipping name: Batteries, Wet, Non-Spillable.  
 Class(es): 8  
 Marine Pollutant: No  
 Special provision(s): 29, 238
- 14.5 Air transport (ICAO-IATA/DGR):  
 Universal Power Group, Inc. VRLA batteries have been tested and meet the non-spillable criteria listed in IATA Packing Instruction 872 and Special Provision A67. These batteries are excepted from all IATA regulations provided that the battery terminals are protected against short circuits. The words "Not Restricted, as per Special Provision A67" must be included in the description on the Air Waybill.  
 UN No: UN2800  
 Proper shipping name: Batteries, Wet, Non-Spillable.  
 Class(es): 8  
 Special provision(s): A48, A67, A164, A183

### Section 15: Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the mixture:
- 15.1.1 National regulations(Canada):  
 WHMIS Classification:  
 Class E: Corrosive materials present at greater than 1%  
*This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the Controlled Products Regulations.*  
 Canada DSL:  
 The following substances are listed on the Canadian DSL:  
 Lead (7439-92-1); Sulfuric Acid (7664-93-9); Antimony (7440-36-0); Tin (7440-31-5);  
 Arsenic (7440-38-2); Calcium (7440-70-2)  
 Canada NDSL:  
 None of the components on this SDS are listed on the Canadian NDSL:

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WHMIS:

### Ingredient Disclosure List

| Substance                         | CAS No.   | Wt %   | Disclosure Limit % |
|-----------------------------------|-----------|--------|--------------------|
| Calcium                           | 7440-70-2 | 0.002% | Not Listed         |
| Sulfuric Acid                     | 7664-93-9 | 10-30% | 1%                 |
| Lead                              | 7439-92-1 | 63-78% | 0.1%               |
| Lead as Lead compounds            |           | 63-78% | Not Listed         |
| Lead as Lead, inorganic compounds |           | 63-78% | 1%                 |
| Tin                               | 7440-31-5 | 0.006% | 1%                 |
| Antimony                          | 7440-36-0 | 0.2 %  | 1%                 |
| Antimony as Antimony compounds    |           | 0.2%   | 1%                 |
| Arsenic                           | 7440-38-2 | 0.003% | 0.1%               |

CEPA:

### Priority Substances List

| Substance                         | CAS No.   | Wt %   | Status     |
|-----------------------------------|-----------|--------|------------|
| Calcium                           | 7440-70-2 | 0.002% | Not Listed |
| Sulfuric Acid                     | 7664-93-9 | 10-30% | Not Listed |
| Lead                              | 7439-92-1 | 63-78% | Not Listed |
| Lead as Lead compounds            |           | 63-78% | Not Listed |
| Lead as Lead, inorganic compounds |           | 63-78% | Not Listed |
| Tin                               | 7440-31-5 | 0.006% | Not Listed |
| Antimony                          | 7440-36-0 | 0.2 %  | Not Listed |
| Antimony as Antimony compounds    |           | 0.2%   | Not Listed |
| Arsenic                           | 7440-38-2 | 0.003% | Not Listed |

#### 15.1.2 National regulations(China):

The following components are listed on the Inventory list for China:

Lead (7439-92-1); Sulfuric Acid (7664-93-9); Antimony (7440-36-0); Tin (7440-31-5); Arsenic (7440-38-2); Calcium (7440-70-2).

#### 15.1.3 National regulations(European Union):

Classification:

Xi; C

Risk Phrases:

R35, R36, R38

Safety Phrases:

S1/2, S26, S30, S45

The following components are listed on the EU EINECS:

Lead (7439-92-1); Sulfuric acid (7664-93-9); Antimony (7440-36-0); Tin (7440-31-5); Arsenic (7440-38-2); Calcium (7440-70-2).

None of the above mentioned components are listed on the EU ELNICS.

CLP (1272/2008) Concentration Limits

| Substance                         | CAS       | WT %  | Concentration Limit                                       |
|-----------------------------------|-----------|-------|---|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed  |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | 15%≤C: C; R35 5%≤C<15%: Xi; R36/38                        |
| Lead                              | 7439-92-1 | 63-78 | Not Listed  |
| Lead as Lead compounds            |           | 63-78 | 2.5%≤C: Repr. Cat. 3; R62 1%≤C: Xn; R20/22<br>0.5%≤C: R33 |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed  |
| Tin                               | 7440-31-5 | 0.006 | Not Listed  |
| Antimony                          | 7440-36-0 | 0.2   | Not Listed  |
| Antimony as Antimony compounds    |           | 0.2   | 0.25%≤C: Xn; R20/22                                       |
| Arsenic                           | 7440-38-2 | 0.003 | Not Listed  |

| Substance                         | CAS       | WT %  | Substances and Preparations   |
|-----------------------------------|-----------|-------|---|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed  |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | B   |
| Lead                              | 7439-92-1 | 63-78 | Not Listed  |
| Lead as Lead compounds            |           | 63-78 | A, E, 1(except those specified elsewhere in the annex)  |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed  |
| Tin                               | 7440-31-5 | 0.006 | Not Listed  |
| Antimony                          | 7440-36-0 | 0.2   | Not Listed  |
| Antimony as Antimony compounds    |           | 0.2   | A, 1 (except tetroxide, pentoxide, trisulphide, pentasulphide and those specified elsewhere in the annex) |
| Arsenic                           | 7440-38-2 | 0.003 | Not Listed  |

Germany

Lead Restrictions:

Lead concentration in the blood above 300 µg/L in male employees and 100 µg/L in female employees requires additional training for personal hygiene and vigilance. Lead concentration in the blood above 350 µg/L in male employees and 200 µg/L in female employees requires additional training for personal hygiene and vigilance; Lead concentration in the blood above 400 µg/L in male employees and 300 µg/L in female employees requires additional training for personal hygiene and vigilance; See TRGS 505 for detailed regulations regarding lead and lead compounds.

Employment restrictions for employees below the age of 18 years; Employment restrictions for pregnant or breastfeeding women; Prohibited for use at home based workplaces; Restrictions apply for use of lead compounds in packaging material, drinking water systems, cars, electrical and electronical devices; See TRGS 505 for detailed regulations regarding lead and lead compounds.

Emission Limits for Inorganic Dusts

| Substance                         | CAS       | WT %  | Emission Limit  |
|-----------------------------------|-----------|-------|---|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed  |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | Not Listed  |
| Lead                              | 7439-92-1 | 63-78 | 2.5 g/h Mass flow (class II); 0.5 mg/m <sup>3</sup> mass concentration (Class II)               |
| Lead as Lead compounds            |           | 63-78 | 2.5 m/h Mass flow (Class II, as Pb); 0.5 mg/m <sup>3</sup> Mass concentration (Class II, as Pb) |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed  |
| Tin                               | 7440-31-5 | 0.006 | 5 g/h Mass flow (Class III); 1 mg/m <sup>3</sup> Mass concentration (Class III)                 |
| Antimony                          | 7440-36-0 | 0.2   | 5 g/h Mass flow (Class III); 1 mg/m <sup>3</sup> Mass concentration (Class III)                 |
| Antimony as Antimony compounds    |           | 0.2   | 5 g/h Mass flow (Class III, as Sb); 1 mg/m <sup>3</sup> Mass concentration (Class III, as Sb)   |
| Arsenic                           | 7440-38-2 | 0.003 | Not Listed  |

15.1.4 National regulations(Japan):

The following chemicals are on the Japanese ENCS:

Lead (7439-92-1); Sulfuric Acid (7664-93-9); Antimony (7440-36-0); Tin (7440-31-5); Arsenic (7440-38-2); Calcium (7440-70-2).

ISHL Harmful substances whose names are to be indicated on the label:

| Substance                         | CAS       | WT %  | Limit       |
|-----------------------------------|-----------|-------|-------------|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed  |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | Not Listed  |
| Lead                              | 7439-92-1 | 63-78 | 0.1% weight |
| Lead as Lead compounds            |           | 63-78 | 0.1% weight |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed  |
| Tin                               | 7440-31-5 | 0.006 | Not Listed  |
| Antimony                          | 7440-36-0 | 0.2   | Not Listed  |
| Antimony as Antimony compounds    |           | 0.2   | Not Listed  |
| Arsenic                           | 7440-38-2 | 0.003 | 0.1% weight |

ISHL Prevention of Lead Poisoning:

| Substance                         | CAS       | WT %  | Status     |
|-----------------------------------|-----------|-------|------------|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | Not Listed |
| Lead                              | 7439-92-1 | 63-78 | Not Listed |
| Lead as Lead compounds            |           | 63-78 | Not Listed |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed |
| Tin                               | 7440-31-5 | 0.006 | Not Listed |
| Antimony                          | 7440-36-0 | 0.2   | Not Listed |
| Antimony as Antimony compounds    |           | 0.2   | Not Listed |
| Arsenic                           | 7440-38-2 | 0.003 | Not Listed |

ISHL Notifiable Substances:

| Substance                         | CAS       | WT %  | Limit       |
|-----------------------------------|-----------|-------|-------------|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed  |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | 1% weight   |
| Lead                              | 7439-92-1 | 63-78 | 0.1% weight |
| Lead as Lead compounds            |           | 63-78 | Not Listed  |
| Lead as Lead, inorganic compounds |           | 63-78 | 0.1% weight |
| Tin                               | 7440-31-5 | 0.006 | 0.1% weight |
| Antimony                          | 7440-36-0 | 0.2   | 0.1% weight |
| Antimony as Antimony compounds    |           | 0.2   | 0.1% weight |
| Arsenic                           | 7440-38-2 | 0.003 | 0.1%weight  |

Air Pollution Control Law: Emission Standards for Air Pollutants:

| Substance                         | CAS       | WT %  | Emission Limit |
|-----------------------------------|-----------|-------|----------------|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed     |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | Not Listed     |
| Lead                              | 7439-92-1 | 63-78 | 10-30 mg/Nm3   |
| Lead as Lead compounds            |           | 63-78 | 10-30 mg/Nm3   |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed     |
| Tin                               | 7440-31-5 | 0.006 | Not Listed     |
| Antimony                          | 7440-36-0 | 0.2   | Not Listed     |
| Antimony as Antimony compounds    |           | 0.2   | Not Listed     |
| Arsenic                           | 7440-38-2 | 0.003 | Not Listed     |

Pollutant Release Transfer Register (PRTR): Class 1 Substances:

| Substance                         | CAS       | WT %  | Status                             |
|-----------------------------------|-----------|-------|------------------------------------|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed                         |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | Not Listed                         |
| Lead                              | 7439-92-1 | 63-78 | 304                                |
| Lead as Lead compounds            |           | 63-78 | 305 (Designated class 1 substance) |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed                         |
| Tin                               | 7440-31-5 | 0.006 | Not Listed                         |
| Antimony                          | 7440-36-0 | 0.2   | 31                                 |
| Antimony as Antimony compounds    |           | 0.2   | 31                                 |
| Arsenic                           | 7440-38-2 | 0.003 | 332 (Designated class 1 substance) |

ISHL Working Environment Evaluation Standards: Administrative Control Levels:

| Substance                         | CAS       | WT %  | Limit                  |
|-----------------------------------|-----------|-------|------------------------|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed             |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | Not Listed             |
| Lead                              | 7439-92-1 | 63-78 | 0.05 mg/m3 ACL         |
| Lead as Lead compounds            |           | 63-78 | 0.05 mg/m3 ACL (as Pb) |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed             |
| Tin                               | 7440-31-5 | 0.006 | Not Listed             |
| Antimony                          | 7440-36-0 | 0.2   | Not Listed             |
| Antimony as Antimony compounds    |           | 0.2   | Not Listed             |
| Arsenic                           | 7440-38-2 | 0.003 | 0.003 mg/m3 ACL        |

15.1.5 National regulations(Korea):

The following substances are listed on the Korean KECL:

Lead (7439-92-1); Sulfuric Acid (7664-93-9); Antimony (7440-36-0); Tin (7440-31-5); Arsenic (7440-38-2); Calcium (7440-70-2)

15.1.6 National regulations(Mexico):

Pollutant Release and Transfer Register: Reporting Emissions:

| Substance                         | CAS       | WT %  | Threshold Quantities |
|-----------------------------------|-----------|-------|----------------------|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed           |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | Not Listed           |
| Lead                              | 7439-92-1 | 63-78 | Not Listed           |
| Lead as Lead compounds            |           | 63-78 | 1 kg/yr TQ           |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed           |
| Tin                               | 7440-31-5 | 0.006 | Not Listed           |
| Antimony                          | 7440-36-0 | 0.2   | Not Listed           |
| Antimony as Antimony compounds    |           | 0.2   | Not Listed           |
| Arsenic                           | 7440-38-2 | 0.003 | 1 kg/yr TQ           |

15.1.7 National regulations(United States):

The following substances are on the MA, NJ, and PA Right To Know Lists:

Lead (7439-92-1); Sulfuric Acid (7664-93-9); Antimony (7440-36-0); Tin (7440-31-5); Arsenic (7440-38-2); Calcium (7440-70-2).

The following substances are on the TSCA inventory:

Lead (7439-92-1); Sulfuric Acid (7664-93-9); Antimony (7440-36-0); Tin (7440-31-5); Arsenic (7440-38-2); Calcium (7440-70-2).

OSHA: Specifically Regulated Chemicals:

| Substance                         | CAS       | WT %  | Limit   |
|-----------------------------------|-----------|-------|---|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed  |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | Not Listed  |
| Lead                              | 7439-92-1 | 63-78 | 30 µg/m <sup>3</sup> Action Level (Poison, See 29 CFR 1910.1025); 50 µg/m <sup>3</sup> TWA                |
| Lead as Lead compounds            |           | 63-78 | Not Listed  |
| Lead as Lead, inorganic compounds |           | 63-78 | 30 µg/m <sup>3</sup> Action Level (Poison, See 29 CFR 1910.1025, as Pb); 50 µg/m <sup>3</sup> TWA (as Pb) |
| Tin                               | 7440-31-5 | 0.006 | Not Listed  |
| Antimony                          | 7440-36-0 | 0.2   | Not Listed  |
| Antimony as Antimony compounds    |           | 0.2   | Not Listed  |
| Arsenic                           | 7440-38-2 | 0.003 | Not Listed  |



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### CAA: 1990 Hazardous Air Pollutants:

| Substance                         | CAS       | WT %  | Limit   |
|-----------------------------------|-----------|-------|---|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed  |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | Not Listed  |
| Lead                              | 7439-92-1 | 63-78 | Not Listed  |
| Lead as Lead compounds            |           | 63-78 | (includes any unique chemical substance that contains Lead as part of its infrastructure)     |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed  |
| Tin                               | 7440-31-5 | 0.006 | Not Listed  |
| Antimony                          | 7440-36-0 | 0.2   | Not Listed  |
| Antimony as Antimony compounds    |           | 0.2   | (includes any unique chemical substance that contains Antimony as part of its infrastructure) |
| Arsenic                           | 7440-38-2 | 0.003 | Not Listed  |

### CERCLA/SARA

#### Hazardous Substances and Their Reportable Quantities:

| Substance                         | CAS       | WT %  | Reportable Quantity  |
|-----------------------------------|-----------|-------|--|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed   |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | 1000 lb final RQ; 454 kg final RQ  |
| Lead                              | 7439-92-1 | 63-78 | 10 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers); 4.54 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers)   |
| Lead as Lead compounds            |           | 63-78 | Not Listed   |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed   |
| Tin                               | 7440-31-5 | 0.006 | Not Listed   |
| Antimony                          | 7440-36-0 | 0.2   | 5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers) |
| Antimony as Antimony compounds    |           | 0.2   | Not Listed   |
| Arsenic                           | 7440-38-2 | 0.003 | 1 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers); 0.454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers)   |



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| Substance                         | CAS       | WT %  | Reportable Quantity |
|-----------------------------------|-----------|-------|---------------------|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed          |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | 1000 lb EPCRA RQ    |
| Lead                              | 7439-92-1 | 63-78 | Not Listed          |
| Lead as Lead compounds            |           | 63-78 | Not Listed          |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed          |
| Tin                               | 7440-31-5 | 0.006 | Not Listed          |
| Antimony                          | 7440-36-0 | 0.2   | Not Listed          |
| Antimony as Antimony compounds    |           | 0.2   | Not Listed          |
| Arsenic                           | 7440-38-2 | 0.003 | Not Listed          |

### Section 302 Extremely Hazardous Substances TPOs:

| Substance                         | CAS       | WT %  | Threshold Planning Quantity |
|-----------------------------------|-----------|-------|-----------------------------|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed                  |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | 1000 lb TPQ                 |
| Lead                              | 7439-92-1 | 63-78 | Not Listed                  |
| Lead as Lead compounds            |           | 63-78 | Not Listed                  |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed                  |
| Tin                               | 7440-31-5 | 0.006 | Not Listed                  |
| Antimony                          | 7440-36-0 | 0.2   | Not Listed                  |
| Antimony as Antimony compounds    |           | 0.2   | Not Listed                  |
| Arsenic                           | 7440-38-2 | 0.003 | Not Listed                  |

### RCRA

#### Basis for Listing: Appendix VII:

| Substance                         | CAS       | WT %  | Basis   |
|-----------------------------------|-----------|-------|---|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed  |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | Not Listed  |
| Lead                              | 7439-92-1 | 63-78 | Included in waste streams: F035, F037, F038, F039, K002, K003, K005, K046, K048, K049, K051, K052, K061, K062, K064, K065, K066, K069, K086, K100, K176 |
| Lead as Lead compounds            |           | 63-78 | Not Listed  |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed  |
| Tin                               | 7440-31-5 | 0.006 | Not Listed  |
| Antimony                          | 7440-36-0 | 0.2   | Included in waste streams: F039, K021, K161, K177   |
| Antimony as Antimony compounds    |           | 0.2   | Not Listed  |
| Arsenic                           | 7440-38-2 | 0.003 | Included in waste streams: F032, F034, F035, F039, K031, K060, K084, K101, K102, K161, K171, K172, K176   |

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### D Series Wastes: Max Concentration of Contaminants for the Toxic Characteristic:

| Substance                         | CAS       | WT %  | Regulatory Level |
|-----------------------------------|-----------|-------|------------------|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed       |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | Not Listed       |
| Lead                              | 7439-92-1 | 63-78 | 5.0 mg/L         |
| Lead as Lead compounds            |           | 63-78 | Not Listed       |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed       |
| Tin                               | 7440-31-5 | 0.006 | Not Listed       |
| Antimony                          | 7440-36-0 | 0.2   | Not Listed       |
| Antimony as Antimony compounds    |           | 0.2   | Not Listed       |
| Arsenic                           | 7440-38-2 | 0.003 | 5.0 mg/L         |

### Hazardous Constituents: Appendix VIII to 40 CFR 261:

| Substance                         | CAS       | WT %  | Status                                  |
|-----------------------------------|-----------|-------|---|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed                              |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | Not Listed                              |
| Lead                              | 7439-92-1 | 63-78 | Hazardous constituent – no waste number |
| Lead as Lead compounds            |           | 63-78 | Hazardous constituent – no waste number |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed                              |
| Tin                               | 7440-31-5 | 0.006 | Not Listed                              |
| Antimony                          | 7440-36-0 | 0.2   | Hazardous constituent – no waste number |
| Antimony as Antimony compounds    |           | 0.2   | Hazardous constituent – no waste number |
| Arsenic                           | 7440-38-2 | 0.003 | Hazardous constituent – no waste number |

### California: California Proposition 65:

| Substance                         | CAS       | WT %  | Status  |
|-----------------------------------|-----------|-------|---|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed  |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | Not Listed  |
| Lead                              | 7439-92-1 | 63-78 | Carcinogen(initial date 10/1/92); developmental toxicity(initial date 2/27/87); 0.5 µg/day(Maximum Allowable Dose Level); 15 µg/day oral(No Significant Risk Level); female reproductive toxicity(initial date 2/27/87); male reproductive toxicity(initial date 2/27/87) |
| Lead as Lead compounds            |           | 63-78 | Carcinogen(initial date 10/1/92)  |
| Lead as Lead, inorganic compounds |           | 63-78 | Developmental toxicity(initial date 2/27/87)  |
| Tin                               | 7440-31-5 | 0.006 | Not Listed  |
| Antimony                          | 7440-36-0 | 0.2   | Not Listed  |
| Antimony as Antimony compounds    |           | 0.2   | Not Listed  |
| Arsenic                           | 7440-38-2 | 0.003 | 0.06µg/day inhalation(No Significant Risk Level); 10µg/day except inhalation(No Significant Risk Level)   |

### Pennsylvania

#### Environmental Hazard list:

| Substance                         | CAS       | WT %  | Regulatory Level |
|-----------------------------------|-----------|-------|------------------|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed       |
| Sulfuric Acid                     | 7664-93-9 | 10-30 |                  |
| Lead                              | 7439-92-1 | 63-78 |                  |
| Lead as Lead compounds            |           | 63-78 |                  |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed       |

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|                                |           |       |            |
|--------------------------------|-----------|-------|------------|
| Tin                            | 7440-31-5 | 0.006 | Not Listed |
| Antimony                       | 7440-36-0 | 0.2   |            |
| Antimony as Antimony compounds |           | 0.2   |            |
| Arsenic                        | 7440-38-2 | 0.003 |            |

### Special hazardous Substances:

| Substance                         | CAS       | WT %  | Regulatory Level |
|-----------------------------------|-----------|-------|------------------|
| Calcium                           | 7440-70-2 | 0.002 | Not Listed       |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | Not Listed       |
| Lead                              | 7439-92-1 | 63-78 | Not Listed       |
| Lead as Lead compounds            |           | 63-78 | Not Listed       |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed       |
| Tin                               | 7440-31-5 | 0.006 | Not Listed       |
| Antimony                          | 7440-36-0 | 0.2   | Not Listed       |
| Antimony as Antimony compounds    |           | 0.2   | Not Listed       |
| Arsenic                           | 7440-38-2 | 0.003 |                  |

### Rhode Island: Hazardous Substances List:

| Substance                         | CAS       | WT %  | Regulatory Level      |
|-----------------------------------|-----------|-------|-----------------------|
| Calcium                           | 7440-70-2 | 0.002 | Flammable             |
| Sulfuric Acid                     | 7664-93-9 | 10-30 | Toxic; Flammable      |
| Lead                              | 7439-92-1 | 63-78 | Toxic (dust and fume) |
| Lead as Lead compounds            |           | 63-78 | Not Listed            |
| Lead as Lead, inorganic compounds |           | 63-78 | Not Listed            |
| Tin                               | 7440-31-5 | 0.006 | Toxic                 |
| Antimony                          | 7440-36-0 | 0.2   | Toxic                 |
| Antimony as Antimony compounds    |           | 0.2   | Toxic                 |
| Arsenic                           | 7440-38-2 | 0.003 | Toxic; Carcinogen     |

## Section 16: Other Information

### 16.1 Relevant R-, H- and EUH-phrases (number and full text):

#### Hazard Abbreviations:

Xi: Irritant.  
Xn: Harmful.  
N: Dangerous for the environment.  
T: Toxic.  
C: Corrosive.  
F: Highly Flammable.

#### Risk Phrases:

R15: Contact with water liberates extremely flammable gases.  
R20/22: Harmful by inhalation and if swallowed.  
R23/25: Toxic by inhalation and if swallowed.  
R33: Danger of cumulative effects.  
R35: Causes severe burns.  
R36: Irritating to eyes.  
R38: Irritating to skin.  
R50: Very toxic to aquatic organisms.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R53: May cause long-term adverse effects in the aquatic environment.  
R61: May cause harm to the unborn child.  
R62: Possible risk of impaired fertility.



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### Safety Phrases:

S1/2: Keep locked up and out of the reach of children.  
S2: Keep out of the reach of children.  
S8: Keep container dry.  
S20/21: When using do not eat, drink, or smoke.  
S24/25: Avoid contact with skin and eyes.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28: After contact with skin, wash immediately with plenty of water.  
S30: Never add water to this product.  
S43: In case of fire use CO<sub>2</sub>, dry chemical, or foam. Never use water.  
S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).  
S53: Avoid exposure – obtain special instructions before use.  
S60: This material and its container must be disposed of as hazardous waste.  
S61: Avoid release to the environment. Refer to special instructions/safety data sheet.

### Hazard statements:

H313: May be harmful in contact with skin.  
H315: Causes skin irritation.  
H335: May cause respiratory irritation.  
EUH201A: Warning! Contains lead.

### Precautionary statements:

P102: Keep out of reach of children.  
P233: Keep containers tightly closed.  
P210: Keep away from heat, sparks, and open flame while charging batteries.

#### 16.2 Further information:

*The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Universal Power Group, Inc. assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Universal Power Group, Inc. assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.*