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| | ion of the substance/mixture and of the company/undertaking |
|--|---|
| 1.1 Product Identifier | on of the substance/inixture and of the company/undertaking |
| 1.1.1 Trade name/designation | c. |
| Battery Electrolyte | |
| | the substance or mixture and uses advised against |
| 1.2.1 Relevant identified uses | |
| Used to activate dry bat | teries |
| 1.2.2 Uses advised against: | |
| Any other not listed abo | ve |
| 1.3 Details of the supplier | |
| 1.3.1 Supplier: | |
| Yuasa Battery, Inc. | |
| 1.3.2 Website | |
| www.yuasabatteries.co | <u>n</u> |
| 1.3.3 Information contact | |
| 2901 Montrose Ave. | |
| Laureldale, PA 19605 | |
| United States | |
| 1.3.4 National contact | (10)020 5701 |
| | nental Resources: (610)929-5781 |
| 1.4 Emergency Telephone Nur CHEMTREC: Dom | estic (800)424-9300 |
| | national: 1(703)527-3887 |
| Intel | lational. 1(703)327-3887 |
| | Section 2: Hazards identification |
| 2.1 Classification of the subst | |
| | to Regulation (EC) No 1272/2008 [CLP/GHS] |
| 8B: Non flammable cor | |
| | g to 67/548/EEC or 1999/45/EC |
| Xi: Irritating | |
| C: Corrosive | |
| | |
| | |
| 2.2 Label elements | |
| 2.2.1 Labeling according to F | Regulation (EC) No 1272/2008 |
| 2.2.1 Labeling according to F Product identifier: | |
| 2.2.1 Labeling according to F Product identifier: Valve Regulated Lead I | |
| 2.2.1 Labeling according to F Product identifier: Valve Regulated Lead I Hazard pictograms: | |
| 2.2.1 Labeling according to F Product identifier: Valve Regulated Lead I | |
| 2.2.1 Labeling according to F Product identifier: Valve Regulated Lead I Hazard pictograms: | |
| 2.2.1 Labeling according to F Product identifier: Valve Regulated Lead I Hazard pictograms: | |
| 2.2.1 Labeling according to F Product identifier: Valve Regulated Lead I Hazard pictograms: | Battery |
| 2.2.1 Labeling according to F Product identifier: Valve Regulated Lead I Hazard pictograms: | |
| 2.2.1 Labeling according to F Product identifier: Valve Regulated Lead I Hazard pictograms: Xn: Harmful Xi: Ir | Battery |
| 2.2.1 Labeling according to F Product identifier: Valve Regulated Lead I Hazard pictograms: | Battery |
| 2.2.1 Labeling according to F Product identifier: Valve Regulated Lead I Hazard pictograms: Xn: Harmful Xi: Ir | Battery |

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2.3 Other hazards

Adverse human health effects and symptoms:

| Inhalation: | (Acute): May cause corrosive burns – irreversible damage. |
|-------------|---|
| | (Chronic): Repeated or prolonged exposure to corrosive fumes may cause bronchial |
| | irritation with chronic cough. |
| Skin: | (Acute): Causes severe skin burns and eye damage. |
| | (Chronic): Repeated or prolonged exposure to corrosive materials will cause dermatitis. |
| Eye: | (Acute): Causes serious eye damage. |
| | (Chronic): Repeated or prolonged exposure to corrosive materials or fumes may cause |
| | conjunctivitis. |
| Ingestion: | (Acute): May cause irreversible damage to mucous membranes. |
| | (Chronic): Repeated or prolonged exposure to corrosive materials or fumes may cause |
| | gastrointestinal disturbances. |
| | |

Routes of Entry:

Inhalation, Skin, Eye, Ingestion/Oral

Medical conditions aggravated by exposure:

Lungs, Skin

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 | % | Name | WHMIS | Classification according |
|-----------|-----------|----------|----------|--|--------------------------|
| | | [weight] | | Classifications | to CLP (1272/2008) |
| 7664-93-9 | 231-639-5 | 30-40% | Sulfuric | D1A, E(including >51%, | C; R35; S1/2, S26, S30, |
| | | | Acid | <=51%) | S45 |
| 7732-18-5 | 231-791-2 | 60-70% | Water | Uncontrolled product according to WHMIS classification criteria. | Not Listed |

Under United States Regulations (29 CFR 1900.1200 – Hazard Communication standard), this product is considered hazardous. In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS). According to the Globally Harmonized Standard for Classification and Labeling (GHS) this product is considered hazardous.

Section 4: First Aid Measures

- 4.1 Description of first aid measures
- 4.1.1 Eye contact:
- Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. 4.1.2 Inhalation:

Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Do not use mouth - to - mouth method if victim inhaled the substance.

4.1.3 Skin contact: For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing and shoes.

4.1.4 Ingestion:

Give plenty of water to drink. Do NOT induce vomiting. Obtain medical attention immediately if ingested.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.

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| | Section 5: Firefighting measures |
|---|--|
| 5.1 | Extinguishing media: |
| 5.1.1 | Suitable extinguishing media: |
| | Small Fires: Dry chemical, CO2 or water spray |
| | Large Fires: Dry chemical, CO2, alcohol – resistant foam or water spray. |
| 5.1.2 | Unsuitable extinguishing media: |
| | Any not listed above |
| 5.2 | Special hazards arising from the substance or mixture |
| 5.2.1 | Hazardous combustion products: |
| | Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive |
| 5 2 | fumes. A duice for fire fichterer |
| 5.3 | Advice for fire-fighters: |
| | Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where |
| | direct contact with the substance is possible. Wear chemical protective clothing that is specifically |
| | recommended by the manufacturer. It may provide little or no thermal protection. |
| | As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all |
| | directions. |
| | Keep out of low areas. |
| | Keep unauthorized personnel away |
| | Stay upwind. |
| 5.4 | Additional information: |
| | Reacts violently with metals, nitrates, chlorates, carbides and other organic materials. Reacts with most |
| | metals to yield explosive flammable hydrogen gas. |
| | |
| | |
| <i>c</i> 1 | Section 6: Accidental release measures |
| 6.1 | Personal precautions, protective equipment and emergency procedures |
| 6.1 | Personal precautions, protective equipment and emergency procedures Ventilate enclosed areas. Do not touch damaged containers or spilled material unless wearing appropriate |
| | Personal precautions, protective equipment and emergency procedures Ventilate enclosed areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. |
| 6.1 6.1.1 | Personal precautions, protective equipment and emergency procedures Ventilate enclosed areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For non-emergency personnel |
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| 6.1.16.1.26.2 | Personal precautions, protective equipment and emergency procedures Ventilate enclosed areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For non-emergency personnel Protective equipment: Wear chemical gloves For emergency responders ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) as an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container. Personal protective equipment: Wear chemical gloves, goggles, acid resistant clothing and boots, respirator if insufficient ventilation. Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas. |
| 6.1.1 6.1.2 6.2 6.3 | Personal precautions, protective equipment and emergency procedures Ventilate enclosed areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For non-emergency personnel Protective equipment: Wear chemical gloves For emergency responders ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) as an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container. Personal protective equipment: Wear chemical gloves, goggles, acid resistant clothing and boots, respirator if insufficient ventilation. Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas. Methods and material for containment and cleaning up |
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| 6.1.1 6.1.2 6.2 6.3 6.3.1 | Personal precautions, protective equipment and emergency procedures Ventilate enclosed areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For non-emergency personnel Protective equipment: Wear chemical gloves For emergency responders ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) as an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container. Personal protective equipment: Wear chemical gloves, goggles, acid resistant clothing and boots, respirator if insufficient ventilation. Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas. Methods and material for containment and cleaning up For containment: Stop leak if you can do it without risk. Absorb with earth sand or other non-combustible material. Do not allow discharge of unneutralized acid to sewer. Cautiously neutralize spilled liquid. |
| 6.1.1 6.1.2 6.2 6.3 | Personal precautions, protective equipment and emergency procedures Ventilate enclosed areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For non-emergency personnel Protective equipment: Wear chemical gloves For emergency responders ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) as an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container. Personal protective equipment: Wear chemical gloves, goggles, acid resistant clothing and boots, respirator if insufficient ventilation. Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas. Methods and material for containment and cleaning up For containment: Stop leak if you can do it without risk. Absorb with earth sand or other non-combustible material. Do not allow discharge of unneutralized acid to sewer. Cautiously neutralize spilled liquid. For cleaning up: |
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| | Section 7: Handling and storage | | | | |
|-------|--|--|--|--|--|
| 7.1 | Precautions for safe handling | | | | |
| 7.1.1 | Protective measures: | | | | |
| | Handle and open container with care. Avoid contact with skin and eyes. Use only with adequate ventilation. | | | | |
| | Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive | | | | |
| | liquid to water while stirring to prevent release of heat, steam and fumes. | | | | |
| 7.1.2 | Advice on general occupational hygiene | | | | |
| | Do not get in eyes or on skin or clothing. 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: | | | | |
| | Keep away from incompatible materials. Store locked up. Keep container/package tightly closed in a cool, | | | | |
| | well-ventilated place. Ventilate enclosed areas. | | | | |
| | 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 (country of origin) | Substance name | EC-No. | CAS-No | Limit value | Monitoring and observation processes |
|--|----------------|-----------|-----------|---|---|
| TWA (ACGIH) TWA (CA ON) STEL(CA QU) TWA(CA QU) STEL (CH) TWA(CH) STEL(FI) TWA(FI) Ceiling(DE) MAK(DE) Ceiling(JP) TWA(ME) | Sulfuric Acid | 231-639-5 | 7664-93-9 | 0.2 mg/m3 0.2 mg/m3 3 mg/m3 1 mg/m3 2 mg/m3 1 mg/m3 1 mg/m3 0.1 mg/m3 peak 0.1 mg/m3 1 mg/m3 1 mg/m3 | Thoracic fraction Thoracic Inhalable fraction Inhalable fraction |
| TWA(NIOSH) TWA(OSHA) 8.2 Exposure control | ols | | | 1 mg/m3 1 mg/m3 | |

8.2.1 Appropriate engineering controls:

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

- 8.2.2 Personal protective equipment:
- 8.2.2.1 Pictograms:



Information on basic physical and chemical properties

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8.2.2.2 Eye/Face protection: Wear face shield and eye protection.8.2.2.3 Skin protection:

9.1

Wear protection:
 Wear protective gloves with elbow length gauntlet.
 Wear synthetic apron. Under severe exposure or emergency conditions, wear acid-resistant clothing and boots.

8.2.2.4 Respiratory protection: None required under normal conditions of use. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Section 9: Physical and Chemical Properties

9.1.1 Appearance Physical state: Liquid Color: Clear **Odor:** Pungent 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): 95-95.5556 Decomposition temperature (°C): No Data Flash point (°C): No Data Ignition temperature (°C): No Data Vapor pressure (hPa): 10 mmHg Vapor density (air = 1): 1 Density (g/cm3): 10.1392-11.2658 lbs/gal Bulk density (kg/m3): No Data Specific Gravity/Relative Density (water=1): 1.215-1.35 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

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Evaporation rate: 1 n-butyl, Acetate=1 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: Contact with organic materials, combustibles, strong reducing agents, metals, strong oxidizers, water.
10.5 Incompatible materials: 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.

10.6 Hazardous decomposition products: Sulfur trioxide, carbon monoxide, sulfuric acid fumes, and sulfur dioxide.

| Section 11: Toxicological Information | | | | | | |
|---------------------------------------|---------------|------------|-----------|-----------------|--|--|
| 11.1 Information on toxicologica | ll effects: | | | | | |
| Sulfuric Acid (7664-93-9) | Effect dose / | Species | Method | Time | | |
| | Concentration | | | | | |
| 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) | | | |
| Water (7732-18-5) | Effect dose / | Species | Method | Time | | |
| | Concentration | | | | | |
| Acute oral toxicity | >90 mL/kg | Rat | LD50 | | | |

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 | |

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11.2.2 Routes of exposure:

11.2.2.1 In case of ingestion:

(Acute): May cause irreversible damage to mucous membranes.

(Chronic): Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

- 11.2.2.2 In case of skin contact: (Acute): Causes severe skin burns and eye damage.
 - (Chronic): Repeated or prolonged exposure to corrosive materials will cause dermatitis.
- 11.2.2.3 In case of inhalation:
 - (Acute): May cause corrosive burns irreversible damage.

(Chronic): Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

11.2.2.4 In case of eye contact:

(Acute): Causes serious eye damage.

(Chronic): Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

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 06

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) UN-No: UN2796 Proper shipping name: Battery fluid, acid Class(es): 8 Packing group: II Hazard label(s): 8 Special provision(s)/Exceptions: A3, A7, B2, B15, IB2, N6, N34, T8, TP2, 154 Passenger aircraft/rail: 1.00 L Cargo aircraft/rail: 30.00 L

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- 14.2 Land transport (ADR/RID/GGVSEB): UN-No: UN2796 Proper shipping name: Battery fluid, acid Class(es): 8 Classification Code: C1 Packing group: II Hazard label(s):8 Special provision(s): -
- 14.3 Land transport (TDG): UN-No: UN2796 Proper shipping name: Battery fluid, acid Class(es): 8 Packing group: II Hazard label(s): 8 Special provision(s): -Explosive Limit and Limited Quantity Index: 1.00 Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index: 1.00
- 14.4 Sea transport (IMDG-Code/GGVSee): UN No: UN2796
 Proper shipping name: Battery fluid, acid Class(es): 8
 Packing group: II
 Marine Pollutant: No Special provision(s): -
- 14.5 Air transport (ICAO-IATA/DGR): UN No: UN2796 Proper shipping name: Battery fluid, acid Class(es): 8 Packing group: II Special provision(s): -

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: Sulfuric Acid (7664-93-9); Water (7732-18-5)

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 % | | |
| Sulfuric Acid | 7664-93-9 | 30-40% | 1% | | |
| Water | 7732-18-5 | 60-70% | Not Listed | | |

CEPA:

| Priority Su | ibstances List | | |
|---------------|----------------|--------|------------|
| Substance | CAS No. | Wt % | Status |
| Sulfuric Acid | 7664-93-9 | 30-40% | Not Listed |
| Water | 7732-18-5 | 60-70% | Not Listed |

- 15.1.2 National regulations(China): The following components are listed on the Inventory list for China: Sulfuric Acid (7664-93-9); Water (7732-18-5)
- 15.1.3 National regulations(European Union): Classification: Xn; Xi; C Risk Phrases: R35, R36, R38 Safety Phrases: S1/2, S26, S30, S45 The following components are listed on the EU EINECS: Sulfuric acid (7664-93-9); Water (7732-18-5)

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

| CLP (1272/2008) Concentration Limits | | | | | | | |
|--------------------------------------|-----|---------|------|------|-----|------------------------------------|--|
| Substance | CAS | 5 | WT % | | Cor | centration Limit | |
| Sulfuric Acid | 766 | 4-93-9 | 30- | 40 | 15% | 5<=C: C; R35 5%<=C<15%: Xi; R36/38 | |
| Water | 773 | 2-18-5 | 60- | 70 | Not | Listed | |
| | | | | | | | |
| Substance | | CAS | | WT | % | Substances and Preparations | |
| Sulfuric Acid | | 7664-93 | 8-9 | 30-4 | -0 | В | |
| Water | | 7732-18 | 8-5 | 60-7 | 0 | Not Listed | |

Germany

| Emis | ssion Limits | for Inorga | nic Dusts |
|------|--------------|------------|-----------|

| Linission Linits for 1 | morganic Dus | 13 | |
|------------------------|--------------|-------|----------------|
| Substance | CAS | WT % | Emission Limit |
| Sulfuric Acid | 7664-93-9 | 30-40 | Not Listed |
| Water | 7732-18-5 | 60-70 | Not Listed |

15.1.4 National regulations(Japan):

The following chemicals are on the Japanese ENCS: Sulfuric Acid (7664-93-9); Water (7732-18-5)

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

| Substance | CAS | WT % | Limit |
|---------------|-----------|-------|------------|
| Sulfuric Acid | 7664-93-9 | 30-40 | Not Listed |
| Water | 7732-18-5 | 60-70 | Not Listed |

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| ISHL Prevention of Lead Poisoning | | | | | |
|-----------------------------------|-----------|-------|------------|--|--|
| Substance | CAS | WT % | Status | | |
| Sulfuric Acid | 7664-93-9 | 30-40 | Not Listed | | |
| Water | 7732-18-5 | 60-70 | Not Listed | | |

| ISHL Notifiable Substances | 1 | | |
|----------------------------|-----------|-------|------------|
| Substance | CAS | WT % | Limit |
| Sulfuric Acid | 7664-93-9 | 30-40 | 1% weight |
| Water | 7732-18-5 | 60-70 | Not Listed |

Air Pollution Control Law: Emission Standards for Air Pollutants

| Substance | CAS | WT % | Emission Limit |
|---------------|-----------|-------|----------------|
| Sulfuric Acid | 7664-93-9 | 30-40 | Not Listed |
| Water | 7732-18-5 | 60-70 | Not Listed |

Pollutant Release Transfer Register (PRTR): Class 1 Substances

| Substance | CAS | WT % | Status |
|---------------|-----------|-------|------------|
| Sulfuric Acid | 7664-93-9 | 30-40 | Not Listed |
| Water | 7732-18-5 | 60-70 | Not Listed |

ISHL Working Environment Evaluation Standards: Administrative Control Levels

| Substance | CAS | WT % | Limit |
|---------------|-----------|-------|------------|
| Sulfuric Acid | 7664-93-9 | 30-40 | Not Listed |
| Water | 7732-18-5 | 60-70 | Not listed |

15.1.5 National regulations(Korea):

The following substances are listed on the Korean KECL:

Sulfuric Acid (7664-93-9); Water (7732-18-5)

15.1.6 National regulations(Mexico):

Pollutant Release and Transfer Register: Reporting Emissions

| Substance | CAS | WT % | Threshold Quantities |
|---------------|-----------|-------|----------------------|
| Sulfuric Acid | 7664-93-9 | 30-40 | Not Listed |
| Water | 7732-18-5 | 60-70 | Not Listed |

15.1.7 National regulations(United States):

The following substances are on the MA, NJ, and PA Right To Know Lists: Sulfuric Acid (7664-93-9); Water (7732-18-5)

The following substances are on the TSCA inventory: Sulfuric Acid (7664-93-9); Water (7732-18-5

| Substance | CAS | WT % | Limit |
|---------------|-----------|-------|------------|
| Sulfuric Acid | 7664-93-9 | 30-40 | Not Listed |
| Water | 7732-18-5 | 60-70 | Not Listed |

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CAA: 1990 Hazardous Air Pollutants

| Substance | CAS | WT % | Limit |
|---------------|-----------|-------|------------|
| Sulfuric Acid | 7664-93-9 | 30-40 | Not Listed |
| Water | 7732-18-5 | 60-70 | Not Listed |

CERCLA/SARA

| Hazardous Substance | es and Their R | eportable (| Quantities |
|---------------------|----------------|-------------|-----------------------------------|
| Substance | CAS | WT % | Reportable Quantity |
| Sulfuric Acid | 7664-93-9 | 30-40 | 1000 lb final RQ; 454 kg final RQ |
| Water | 7732-18-5 | 60-70 | Not Listed |

Section 302 Extremely Hazardous Substances EPCRA RQs

| Substance | CAS | WT % | Reportable Quantity |
|---------------|-----------|-------|---------------------|
| Sulfuric Acid | 7664-93-9 | 30-40 | 1000 lb EPCRA RQ |
| Water | 7732-18-5 | 60-70 | Not Listed |

Section 302 Extremely Hazardous Substances TPQs

| Substance | CAS | WT % | Threshold Planning Quantity |
|---------------|-----------|-------|-----------------------------|
| Sulfuric Acid | 7664-93-9 | 30-40 | 1000 lb TPQ |
| Water | 7732-18-5 | 60-70 | Not Listed |

RCRA

Basis for Listing: Appendix VII

| | penam in | | |
|---------------|-----------|-------|------------|
| Substance | CAS | WT % | Basis |
| Sulfuric Acid | 7664-93-9 | 30-40 | Not Listed |
| Water | 7732-18-5 | 60-70 | Not Listed |

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

| Substance | CAS | WT % | Regulatory Level |
|---------------|-----------|-------|------------------|
| Sulfuric Acid | 7664-93-9 | 30-40 | Not Listed |
| Water | 7732-18-5 | 60-70 | Not Listed |

Hazardous Constituents: Appendix VIII to 40 CFR 261

| Substance | CAS | WT % | Status |
|---------------|-----------|-------|------------|
| Sulfuric Acid | 7664-93-9 | 30-40 | Not Listed |
| Water | 7732-18-5 | 60-70 | Not Listed |

California: California Proposition 65

| California. California i Toposi | 11011 0.5 | 12 | |
|---------------------------------|-----------|-------|------------|
| Substance | CAS | WT % | Status |
| Sulfuric Acid | 7664-93-9 | 30-40 | Not Listed |
| Water | 7732-18-5 | 60-70 | Not Listed |

Pennsylvania

| Environmental Haza | rd list | | |
|--------------------|-----------|-------|------------------|
| Substance | CAS | WT % | Regulatory Level |
| Sulfuric Acid | 7664-93-9 | 30-40 | |
| Water | 7732-18-5 | 60-70 | Not Listed |

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Special hazardous Substances

| Substance | CAS | WT % | Regulatory Level |
|---------------|-----------|-------|------------------|
| Sulfuric Acid | 7664-93-9 | 30-40 | Not Listed |
| Water | 7732-18-5 | 60-70 | Not Listed |

Rhode Island: Hazardous Substances List

| Substance | CAS | WT % | Regulatory Level |
|---------------|-----------|-------|------------------|
| Sulfuric Acid | 7664-93-9 | 30-40 | Toxic; Flammable |
| Water | 7732-18-5 | 60-70 | Not Listed |

Section 16: Other Information

| 16.1 | Relevant R-, H- and EUH-phrases (number and full text): | | | | | | |
|------|--|--|--|--|--|--|--|
| | Hazard Abbreviations: | | | | | | |
| | Xn: Harmful | | | | | | |
| | Xi: Irritant | | | | | | |
| | C: Corrosive | | | | | | |
| | Risk Phrases: | | | | | | |
| | R35: Causes severe burns | | | | | | |
| | R36: Irritating to eyes | | | | | | |
| | R38: Irritating to skin | | | | | | |
| | Safety Phrases: | | | | | | |
| | S1/2: Keep locked up and out of the reach of children | | | | | | |
| | S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice | | | | | | |
| | S30: Never add water to this product | | | | | | |
| | S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible) | | | | | | |
| | Hazard statements: | | | | | | |
| | H314: Causes severe skin burns and eye damage | | | | | | |
| | H315: Causes skin irritation | | | | | | |
| | H335: May cause respiratory irritation | | | | | | |
| | 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: | | | | | | |
| | | | | | | | |

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