SAFETY DATA SHEET
PERACETIC ACID 35% W/H2SO4

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name PERACETIC ACID 35% W/H2SO4

Other means of identification

CAS-No 79-21-0
Synonyms Peracetic Acid; Ethaneperoxoic Acid; Peroxyacetic Acid; Acetyl Hydroperoxide

Recommended use of the chemical and restrictions on use

Recommended Use: Oxidizing agent for a variety of organic reactions
Restrictions on Use: Use as recommended by the label.

Manufacturer/Supplier

PeroxyChem LLC
2005 Market Street
Suite 3200
Philadelphia, PA 19103
Phone: +1 267/ 422-2400 (General Information)
E-Mail: sdsinfo@peroxychem.com

Emergency telephone number

For leak, fire, spill or accident emergencies, call:
1 800 / 424 9300 (CHEMTREC - U.S.A.)
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)
1 303/ 389-1409 (Medical - U.S. - Call Collect)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 3</td>
</tr>
<tr>
<td>Acute toxicity - Dermal</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Vapors)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 1 Sub-category A</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Organic Peroxide</td>
<td>Type F</td>
</tr>
<tr>
<td>Flammable liquids</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

GHS Label elements, including precautionary statements
PERACETIC ACID 35% W/H2SO4

SDS #: 79-21-0--35-1
Revision date: 2015-04-07
Version 1

EMERGENCY OVERVIEW

Danger

Hazard Statements
H301 - Toxic if swallowed
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H331 - Toxic if inhaled
H335 - May cause respiratory irritation

Physical Hazards
H242 - Heating may cause a fire
H226 - Flammable liquid and vapor

Precautionary Statements - Prevention
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P220 - Keep/Store away from clothing/combustible materials
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P234 - Keep only in original container
P235 - Keep cool

Precautionary Statements - Response
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P310 - Immediately call a POISON CENTER or doctor
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P310 - Immediately call a POISON CENTER or doctor
P370 + P378 - In case of fire: Use water for extinction

Precautionary Statements - Storage
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P411 + P235 - Store at temperatures not exceeding 30 °C/ 86 °F. Keep cool
P410 - Protect from sunlight

Hazards not otherwise classified (HNOC)
No hazards not otherwise classified were identified.

Other Information
Do not store on wooden pallets. Avoid damage to containers. In case of decomposition: isolate container, douse container with cool water and dilute with large volumes of water. In case of leak or spill: Stop leak if this can be done without risk. Flush area with large quantities of water. Undiluted material should not be allowed to enter confined spaces. Risk of decomposition by heat or by contact with incompatible materials.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid</td>
<td>64-19-7</td>
<td>40</td>
</tr>
<tr>
<td>Peracetic Acid</td>
<td>79-21-0</td>
<td>35.5</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>17</td>
</tr>
<tr>
<td>Hydrogen Peroxide</td>
<td>7722-84-1</td>
<td>6.5</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>7664-93-9</td>
<td>1</td>
</tr>
</tbody>
</table>

Synonyms are provided in Section 1.

4. FIRST AID MEASURES

**General Advice**
Liquid and mist are corrosive and can cause burns, direct contact could cause irreversible damage to eyes including blindness and/or irreversible destruction of skin tissue. Vapor/mist will irritate the nose, throat and lungs, but will usually subside when exposure ceases. The severity of the effects depends in the concentration and dose.

**Eye Contact**
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids intermittently. Consult a physician.

**Skin Contact**
Immediately flush with plenty of water while removing contaminated clothing and/or shoes, and thoroughly wash with soap and water. Seek immediate medical attention/advice. Wash contaminated clothing with plenty of water to prevent fire hazard.

**Inhalation**
Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

**Ingestion**
Clean mouth with water. Drink 1 or 2 glasses of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately.

**Most important symptoms and effects, both acute and delayed**
This product is irritating to the respiratory system and can cause pulmonary inflammation and edema, especially if it is inhaled in the aerosol form. In case of accidental ingestion, necrosis may result from mucous membrane burns (mouth, esophagus and stomach). Oxygen rapid release may cause stomach swelling and hemorrhaging, which may product major, or even fatal, injury to organs if a large amount has been ingested. Corneal lesions and irreversible damage if contact with the eyes.

**Indication of immediate medical attention and special treatment needed, if necessary**
This product can be corrosive to skin, eyes, and mucous membranes. Consideration should be given to careful endoscopy as stomach or esophageal burns, perforations or strictures may occur. Careful gastric lavage with an endotracheal tube in place should be considered. Observations may be warranted. Treatment is controlled removal of exposure followed by symptomatic and supportive care.

5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Water. Cool containers with flooding quantities of water until well after fire is out.

**Unsuitable extinguishing media**
Chemical type extinguishers are not effective with peracetic acid or hydrogen peroxide.

**Specific Hazards Arising from the Chemical**
Decomposes under fire conditions to release oxygen that intensifies the fire.

**Explosion data**
Not Available.

**Sensitivity to Mechanical Impact**
Not Available.

**Sensitivity to Static Discharge**
Not Available.

**Protective equipment and precautions for firefighters**
Wear self-contained breathing apparatus and protective suit. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see Section 8.

Other
For further clean-up instructions, call PeroxyChem Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

Environmental Precautions
Prevent material from entering into soil, ditches, sewers, waterways, and/or groundwater. See Section 12, Ecological Information for more detailed information.

Methods for Containment
Control runoff and isolate discharged material for proper disposal. Do not allow material to enter storm or sanitary sewer system.

Methods for cleaning up
Hydrogen peroxide is an ingredient in this product; completely submerge hydrogen peroxide contaminated clothing or other materials in water prior to drying. Residual hydrogen peroxide, if allowed to dry on combustible materials such as paper, fabrics, leather or wood can cause the material to ignite and result in a fire.

7. HANDLING AND STORAGE

Handling
Handle product only in closed system or provide appropriate exhaust ventilation. Electric and light installations ought to be explosion-proof. Use only non-sparking tools. IBC (Tote) - IBC should be emptied as thoroughly as possible and recycled without rinsing. Drums - Empty as thoroughly as possible. Triple rinse drums before disposal. Avoid contamination; impurities accelerate decomposition. Never return product to original container.

Storage
Do not stored near reducing agents, fuels or other non-compatible materials. Keep in a dry, cool and well-ventilated place. Keep at temperatures below 30°C. Higher temperatures will accelerate decomposition resulting in loss of assay. Keep away from direct sunlight. Keep away from heat and sources of ignition i.e., steam pipes, radiant heaters, hot air vents or welding sparks. Use first in, first out storage system. Do not double-stack. Containers must be vented.

Incompatible products
Oxidizing agents; Strong reducing agents; Combustible materials; Heavy metals such as iron, copper, chromium, nickel, aluminum and cobalt.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
<th>Mexico</th>
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</thead>
<tbody>
<tr>
<td>Acetic Acid 64-19-7</td>
<td>STEL 15 ppm</td>
<td>TWA: 10 ppm</td>
<td>IDLH: 50 ppm</td>
<td>Mexico: TWA 10 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 ppm</td>
<td>TWA: 25 mg/m³</td>
<td>TWA: 10 ppm</td>
<td>Mexico: TWA 25 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 25 mg/m³</td>
<td>Mexico: STEL 15 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL: 15 ppm</td>
<td>Mexico: STEL 37 mg/m³</td>
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<tr>
<td>Hydrogen Peroxide 7722-84-1</td>
<td>TWA: 1 ppm</td>
<td>TWA: 1 ppm</td>
<td>IDLH: 75 ppm</td>
<td>Mexico: TWA 1 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 1.4 mg/m³</td>
<td>TWA: 1 ppm</td>
<td>Mexico: TWA 1.5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 1.4 mg/m³</td>
<td>Mexico: STEL 2 ppm</td>
</tr>
<tr>
<td>Sulfuric Acid 7664-93-9</td>
<td>TWA: 0.2 mg/m³</td>
<td>TWA: 1 mg/m³</td>
<td>IDLH: 15 mg/m³</td>
<td>Mexico: TWA 1 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 1 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Chemical name</td>
<td>British Columbia</td>
<td>Quebec</td>
<td>Ontario TWAEV</td>
<td>Alberta</td>
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<tr>
<td>Acetic Acid 64-19-7</td>
<td>TWA: 10 ppm</td>
<td>TWA: 10 ppm</td>
<td>TWA: 10 ppm</td>
<td>TWA: 10 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL: 15 ppm</td>
<td>TWA: 25 mg/m³</td>
<td>TWA: 25 mg/m³</td>
<td>TWA: 25 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL: 15 ppm</td>
<td>STEL: 15 ppm</td>
<td>STEL: 15 ppm</td>
</tr>
</tbody>
</table>
PERACETIC ACID 35% W/H2SO4

<table>
<thead>
<tr>
<th>Substance</th>
<th>TWA: 1 ppm</th>
<th>TWA: 1.4 mg/m³</th>
<th>TWA: 1 ppm</th>
<th>TWA: 1.4 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Peroxide 7722-84-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulfuric Acid 7664-93-9</td>
<td>TWA: 0.2 mg/m³</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 0.2 mg/m³</td>
<td>TWA: 3 mg/m³</td>
</tr>
</tbody>
</table>

### Appropriate engineering controls

**Engineering measures**

Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Ensure that eyewash stations and safety showers are close to the workstation location.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection**
Tightly fitting safety goggles. Face-shield.

**Skin and Body Protection**
Rubber or neoprene footwear. Impervious clothing materials such as rubber, neoprene, nitrile or polyvinyl chloride. Wear liquid proof rubber or neoprene gloves. Hydrogen peroxide is an ingredient in this product; completely submerge hydrogen peroxide contaminated clothing or other materials in water prior to drying. Residual hydrogen peroxide, if allowed to dry on combustible materials such as paper, fabrics, leather or wood can cause the material to ignite and result in a fire.

**Hand Protection**
Rubber/latex/neoprene or other suitable chemical resistant gloves. Wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

**Respiratory Protection**
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators: Full face piece respirator with organic vapor/acid gas cartridge or canister. If break-through occurs, use airline supplied or self-contained breathing apparatus with full face piece.

**Hygiene measures**
Clean water should be available for washing in case of eye or skin contamination. Remove and wash contaminated clothing before re-use. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Launder work clothing separately from regular household laundry.

**General information**
Protective engineering solutions should be implemented and in use before personal protective equipment is considered.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Appearance**
Clear, colorless liquid

**Physical State**
Liquid

**Color**
Colorless

**Odor**
stinging, Pungent vinegar-like

**Odor threshold**
No information available

**pH**
< 1

**Melting point/freezing point**
-44 °C / -47 °F

**Boiling Point/Range**
~107 °C / 225 °F

**Flash point**
46 °C / 115 °F Closed cup Open Cup - No measurable flash point up to 110°C

**Evaporation Rate**
< 1 (n-butyl acetate=1)

**Flammability (solid, gas)**

**Flammability Limit in Air**
Upper flammability limit: Lower flammability limit:

**Vapor pressure**
20 mm Hg at 25°C
10. STABILITY AND REACTIVITY

Reactivity
Reactive and oxidizing agent. Organic peroxide.

Chemical Stability
Stable under normal conditions. Contamination or heat could initiate decomposition.

Possibility of Hazardous Reactions
May produce explosive reactions with Acetic Anhydride. Contact with metals, metallic ions, alkalis, reducing agents and organic matter (such as alcohols or terpenes) may produce self-accelerated thermal decomposition.

Hazardous polymerization
Hazardous polymerization does not occur.

Conditions to avoid
Heat, flames and sparks; Temperatures above 30°C. Higher temperatures will accelerate decomposition resulting in loss of assay

Incompatible materials
Oxidizing agents; Strong reducing agents; Combustible materials; Heavy metals. such as iron, copper, chromium, nickel, aluminum and cobalt.

Hazardous Decomposition Products
Liable to produce overpressure in container. Acetic acid and oxygen that supports combustion.

11. TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral
LD50 Rat = 50 -500 mg/kg/bw (35% Peracetic acid)
LD50 rat = 1026-1780 mg/kg/bw (15% Peracetic acid)
LD50 rat = 185-3622 mg/kg/bw (2.6-6.11% Peracetic acid)

LD50 Dermal
LD50 Rat = 1967 mg/kg/bw (15% Peracetic acid)
LD50 rat = >1147 mg/kg/bw (5% Peracetic acid)
LD50 rat = >2000 mg/kg/bw (Peracetic acid 0.15%-0.89%)

LC50 Inhalation
LC50 (4-hr) Rat = 76-189 mg/m³ (15% Peracetic acid)
LC50 (4-h) rat = 204 mg/m³ (5% Peracetic acid)

Serious eye damage/eye irritation
Corneal lesions and irreversible damage if contact with the eyes.

Skin corrosion/irritation
Corrosive to skin.

Sensitization
Did not cause sensitization on laboratory animals.

Information on toxicological effects

Symptoms
Liquid and mist are corrosive and can cause burns, direct contact could cause irreversible damage to eyes including blindness and/or irreversible destruction of skin tissue. Vapor/mist will irritate the nose, throat and lungs, but will usually subside when exposure ceases. The severity of the effects depends in the concentration and dose.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Chronic toxicity

Repeated inhalation of the mist may cause inflammation of the upper respiratory tract, chronic bronchitis and etching of the dental enamel.

Carcinogenicity

Did not show carcinogenic effects in animal experiments. Topical applications do not produce skin tumors. Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).

Mutagenicity

This product is not recognized as mutagenic by Research Agencies. Did not show mutagenic effects in animal experiments.

Reproductive toxicity

This product is not recognized as reprotox by Research Agencies. No toxicity to reproduction in animal studies.

STOT - single exposure

May cause respiratory irritation.

STOT - repeated exposure

Not classified.

Aspiration hazard

Aspiration risk: may cause lung damage if swallowed.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

<table>
<thead>
<tr>
<th>Peracetic Acid (79-21-0)</th>
<th>Active Ingredient(s)</th>
<th>Duration</th>
<th>Species</th>
<th>Value</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peracetic Acid 15%</td>
<td>96 h LC50</td>
<td>Oncorhynchus mykiss (rainbow trout)</td>
<td>0.53</td>
<td>mg/L</td>
<td></td>
</tr>
<tr>
<td>Peracetic Acid 5%</td>
<td>96 h LC50</td>
<td>Bluegill sunfish</td>
<td>1.1</td>
<td>mg/L</td>
<td></td>
</tr>
<tr>
<td>Peracetic Acid</td>
<td>33 d NOEC</td>
<td>Brachydanio rerio</td>
<td>0.00225</td>
<td>mg/L</td>
<td></td>
</tr>
<tr>
<td>Peracetic Acid 5%</td>
<td>96 h LC50</td>
<td>Oncorhynchus mykiss (rainbow trout)</td>
<td>1.6</td>
<td>mg/L</td>
<td></td>
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<tr>
<td>Peracetic Acid 5%</td>
<td>48 h EC50</td>
<td>Daphnia magna</td>
<td>0.73</td>
<td>mg/L</td>
<td></td>
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<tr>
<td>Peracetic Acid 12.5%</td>
<td>48 h EC50</td>
<td>Mytilus edulis</td>
<td>0.27</td>
<td>mg/L</td>
<td></td>
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<tr>
<td>Peracetic Acid 15%</td>
<td>21 d NOEC</td>
<td>Daphnia magna</td>
<td>0.05</td>
<td>mg/L</td>
<td></td>
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<tr>
<td>Peracetic Acid 5%</td>
<td>72 h EC50</td>
<td>Selenastrum capricornutum</td>
<td>0.16</td>
<td>mg/L</td>
<td></td>
</tr>
<tr>
<td>Peracetic Acid 5%</td>
<td>120 h EC50</td>
<td>Selenastrum capricornutum</td>
<td>0.18</td>
<td>mg/L</td>
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<tr>
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<td>72 h NOEC</td>
<td>Selenastrum capricornutum</td>
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<td>mg/L</td>
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<tr>
<td>Peracetic Acid</td>
<td>3 h EC50</td>
<td>Respiration inhibition test (OECD 209)</td>
<td>5.1</td>
<td>mg/L</td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability

Peracetic acid is completely miscible with water. Aqueous solutions of peracetic acid hydrolyze to acetic acid and hydrogen peroxide. Product is biodegradable.

Bioaccumulation

Based on its low octanol-water partition coefficient and its rapid degradation in the environment, this product is not bioaccumulable.

Mobility

Peracetic acid released in the environment will partition almost exclusively (>99%) to the water compartment. Only a minor part (<1%) will remain in the atmosphere, where it is expected to undergo rapid decomposition with a half life of 22 minutes. The fate of peracetic acid in the environment is mainly determined by its degradation.

Other Adverse Effects

None known.
13. DISPOSAL CONSIDERATIONS

Waste disposal methods

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

US EPA Waste Number

D001 D002

Contaminated Packaging

Non-returnable containers that held this material should be cleaned by triple-rinsing prior to recycle or disposal. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

UN/ID no

UN 3109

Proper Shipping Name

ORGANIC PEROXIDE TYPE F, LIQUID

Hazard class

5.2

Subsidiary class

8 and 3

Packing Group

II

TDG

UN/ID no

UN 3109

Proper Shipping Name

ORGANIC PEROXIDE TYPE F, LIQUID

Hazard class

5.2

Subsidiary class

8 and 3

Packing Group

II

ICAO/IATA

Air regulation permit shipment of peracetic acid in non-vented containers for Air Cargo Only aircraft, as well as for Passenger and Cargo aircraft. HOWEVER, all peracetic acid containers are vented and therefore, air shipments of peracetic acid are not permitted. IATA air regulations state that venting of packages containing oxidizing substances is not permitted for air transport.

IMDG/IMO

UN/ID no

UN 3109

Proper Shipping Name

ORGANIC PEROXIDE TYPE F, LIQUID

Hazard class

5.2

Subsidiary Hazard Class

8 and 3

Packing Group

II

OTHER INFORMATION

Material is shipped in 5 gal. (45 lb.), 30 gal. (250 lb.) and 55 gal. (450 lb.) vented linear (not cross-linked) polyethylene containers, as well as linear (not cross-linked) polyethylene IBC's (330 gal.). Do not ship on wooden pallets.

15. REGULATORY INFORMATION

U.S. Federal Regulations

Clean Air Act (CAA) - Accidental Release Prevention

Peracetic acid is listed as a Regulated Toxic Substance at 40 CFR 68.130. Pursuant to the threshold determination provisions for mixtures at 40 CFR 68.155(b)(1), the partial pressure of peracetic acid in VigorOx products (up to 35% solutions) are less than 10 mm Hg at 25°C, and thus the product, as sold, is not subject to the threshold determination under the Risk Management Planning regulations.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
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</table>
PERACETIC ACID 35% W/H2SO4

<table>
<thead>
<tr>
<th></th>
<th>Peracetic Acid - 79-21-0</th>
<th>79-21-0</th>
<th>35.5</th>
<th>1.0</th>
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<tbody>
<tr>
<td></td>
<td>Sulfuric Acid - 7664-93-9</td>
<td>7664-93-9</td>
<td>1</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories

- Acute health hazard: Yes
- Chronic health hazard: No
- Fire hazard: Yes
- Sudden release of pressure hazard: No
- Reactive Hazard: Yes

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid</td>
<td>5000 lb</td>
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</tr>
<tr>
<td>Sulfuric Acid</td>
<td>1000 lb</td>
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</table>

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
<th>SARA RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td>64-19-7</td>
<td></td>
<td></td>
<td>RQ 2270 kg final RQ</td>
</tr>
<tr>
<td>Peracetic Acid</td>
<td>500 lb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>79-21-0</td>
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</tr>
<tr>
<td>Hydrogen Peroxide</td>
<td>1000 lb</td>
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</tr>
<tr>
<td>7722-84-1</td>
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<td></td>
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</tr>
<tr>
<td>Sulfuric Acid</td>
<td>1000 lb</td>
<td>1000 lb</td>
<td>RQ 1000 lb final RQ</td>
</tr>
<tr>
<td>7664-93-9</td>
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<td>RQ 454 kg final RQ</td>
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International Inventories

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<th>Component</th>
<th>TSCA (United States)</th>
<th>DSL (Canada)</th>
<th>EINECS/EL INCS (Europe)</th>
<th>ENCS (Japan)</th>
<th>China (IECSC)</th>
<th>KECL (Korea)</th>
<th>PICCS (Philippines)</th>
<th>AICS (Australia)</th>
<th>NZIoC (New Zealand)</th>
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<tr>
<td>Peracetic Acid</td>
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<tr>
<td>79-21-0 (35.5)</td>
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<tr>
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<td>7722-84-1 (6.5)</td>
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<tr>
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<td>7664-93-9 (1)</td>
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Mexico - Grade

Serious risk, Grade 3

CANADA

WHMIS Statement

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 CPR.

WHMIS Hazard Class
C - Oxidizing materials
PERACETIC ACID 35% W/H2SO4

E - Corrosive material
D2B - Toxic materials
B3 - Combustible liquid

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Stability</th>
<th>Special Hazards</th>
<th>OX</th>
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<tr>
<td>HMIS</td>
<td>Health Hazards</td>
<td>Flammability</td>
<td>Physical hazard</td>
<td>Special precautions</td>
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</tbody>
</table>

NFPA/HMIS Ratings Legend
Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0
Special Hazards: OX = Oxidizer
Protection = H (Safety goggles, gloves, apron, the use of supplied air or SCBA respirator is required in lieu of a vapor cartridge respirator)

Uniform Fire Code
Organic Peroxide: Class 3--Liquid

Revision date: 2015-04-07
Revision note: Initial Release

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Prepared By:
PeroxyChem
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End of Safety Data Sheet