



Safety Data Sheet

Issue Date: 8/24/2014

Revision Date: 4/7/2022

Version No.: 2.0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sulfuric Acid, Less than 51% (1% to 51%)

SDS No.: CCC-005

UN/ID No.: UN2796

Recommended use of the chemical and restrictions on use: For industrial use.

Company Name & Address: Colonial Chemical Company
78 Carranza Road
Tabernacle, NJ 08088

For More Information Call: 1-609-268-1200 (Monday-Friday 8:00-4:30)

In Case of Emergency Call: INFOTRAC 1-800-535-5053 (North America)
1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

OSHA Hazards: Not classified

Target Organs: Skin, eyes

Signal Words: Danger

Pictograms:



GHS Classification:

| | |
|-----------------------------------|---------------------------|
| Skin Corrosion/irritation | Category 1, Subcategory B |
| Serious eye damage/eye irritation | Category 1 |

GHS Label Elements, including precautionary statements:

Hazard Statements:

| |
|---|
| Causes severe skin burns and eye damage |
|---|

Precautionary Statements:

| Prevention | |
|------------|---|
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray |
| P271 | Use only outdoors or in a well-ventilated area |
| P284 | Wear respiratory protection |
| P264 | Wash face, hands and any exposed skin thoroughly after handling |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |

| Response | |
|---------------------|---|
| P305+P351+P338+P310 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, immediately call a poison center or doctor/physician |
| P303+P361+P353+P363 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower wash contaminated clothing before reuse |
| P304+P340+P310 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician |
| P301+P330+P331+P310 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician |
| Storage | |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed |
| P405 | Store locked up |
| Disposal | |
| P501 | Dispose of contents/container to an approved waste disposal plant |

Hazards Not Otherwise Classified (HNOC)

| |
|-----------------------------|
| May be harmful if swallowed |
|-----------------------------|

NFPA Ratings

| | |
|-----------------|---|
| Health | 3 |
| Flammability | 0 |
| Reactivity | 2 |
| Specific hazard | W |

HMIS Ratings

| | |
|------------|----------------|
| Health | 3 |
| Fire | 0 |
| Reactivity | 2 |
| Personal | Not determined |

0=minimal 1=slight 2=moderate 3=serious 4=severe

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | Weight % | CAS # |
|---------------|----------|-----------|
| Sulfuric Acid | 1-51 | 7664-93-9 |

**Chemicals listed are only those ingredients which are not trade secrets, are classified as health hazards and are present above their concentration limits.*

4. FIRST-AID MEASURES

| | |
|-------------------|---|
| General | Provide this SDS to medical personnel for treatment |
| Eyes | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention. |
| Inhalation | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention immediately. |
| Skin | In case of contact, immediately (within seconds) flush skin with plenty of cold water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. While the patient is being transported to a medical facility apply compresses of iced water. If medical treatment must be delayed, immerse the affected area in iced water or apply compresses of iced water to affected areas. Do not freeze tissue. |
| Ingestion | If swallowed, do not induce vomiting except at the direction of medical personnel. Rinse mouth. Drink 1 or 2 glasses of water. Get medical attention immediately. |

Most important symptoms and effects

Symptoms Causes severe skin burns and eye damage. May cause irritation to the mucous membranes and upper respiratory tract. Irritation and corrosive burns to mouth, throat, and stomach.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Continued washing of the affected area with cold or iced water will be helpful in removing the last traces of sulfuric acid. Creams or ointments should not be applied before or during the washing phase of treatment.

5. FIRE-FIGHTING MEASURES

| | |
|--|--|
| Suitable (and unsuitable) extinguishing media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable extinguishing media not determined |
| Special protective equipment and precautions for firefighters | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |
| Specific hazards arising from the chemical | Product is not flammable or combustible. Reacts with most metals, especially when dilute, to give flammable, potentially explosive hydrogen gas. |
| Hazardous Combustion Products | Carbon oxides |

6. ACCIDENTAL RELEASE MEASURES

| | |
|--|--|
| Personal precautions, protective equipment and emergency procedures | Wear protective clothing as described in Section 8 of this safety data sheet. Ventilate affected area. |
| Environmental precautions | Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. |
| Methods and materials for containment | Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an inert (i.e. vermiculite, dry sand or earth) absorbent material. |
| Methods and materials for clean up | Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS. |
| Secondary Hazards | Material can create slippery conditions. |

7. HANDLING AND STORAGE**Precautions for Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Follow all SDS/label precautions even after container is emptied, because it may retain product residues. Do not breathe vapors or spray mist. Do not eat, drink or smoke when handling this product. Use only with adequate ventilation. Wear respiratory protection. Loosen closure carefully; relieve internal pressure when received and at least weekly thereafter. Do not use pressure to empty. Do not wash out container or use it for other purposes. Replace closure after each use.

Conditions for safe storage, including any incompatibilities

| | |
|-------------------------------|---|
| Storage Conditions | Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from incompatible materials. Store locked up. |
| Packaging Materials | Empty containers retain product residue and can be hazardous. |
| Incompatible Materials | Vigorous reactions with water; alkaline solutions; metals, metal powder; carbides; chlorates; nitrates; strong oxidizing, reducing, or combustible organic materials. Hazardous gases are evolved on contact with chemicals such as cyanides, sulfides, and carbides. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Occupational exposure controls:**

| Component | Exposure Limits | Basis | Entity |
|----------------------------|-------------------------------|-------|-----------|
| Sulfuric Acid 7664-93-9 | 0.2 mg/m ³ | TWA | ACGIH TLV |
| | 1 mg/m ³ (vacated) | TWA | OSHA PEL |
| | 1 mg/m ³ | TWA | OSHA PEL |
| | 15 mg/m ³ | IDLH | NIOSH |
| | 1 mg/m ³ | TWA | NIOSH |

TWA: Time Weighted Average over 8 hours of work.

PEL: Permissible Exposure Limit

IDLH: Immediately Dangerous to Life or Health

Appropriate engineering controls**Engineering Controls**

Apply technical measures to comply with the occupational exposure limits. Eyewash stations. Showers.

Personal Protection

| | |
|------------------------|---|
| Eyes | Use chemical safety goggles and/or a full-face shield where splashing is possible |
| Inhalation | If the exposure limit is exceeded and engineering controls are not feasible, a full-face respirator with an acid gas cartridge and particulate filter (NIOSH type N100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P particulate filter. For emergencies or instances where the exposure levels are not known, use a full-face shield positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres. Where respirators are required, you must have a written program covering the basic requirements in the OSHA respirator standard. These include training, fit testing, medical approval, cleaning, maintenance, cartridge change schedules, etc. See 29CFR1910.134 for details. |
| Skin & Body | Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. |
| General Hygiene | Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|------------------------------------|
| Appearance (physical state, color, etc.) | Clear Liquid |
| Odor | Slightly acrid |
| pH | < 1.0 |
| Specific gravity | 1.058-1.409 @ 60°F |
| Freezing point | 10%wt - (25°F) 51%wt - (-30°F) |
| Boiling point | 10%wt - (210°F) 51%wt - (270°F) |
| Flash point | Will not burn, non-flammable |
| Flammability (solid, gas) | Liquid-not applicable |
| Upper/lower flammability or explosive limit | Not determined |
| Vapor pressure | < 0.3 mmHg @ 25°C (77°F) |
| Vapor density | 3.4 (Air=1) |
| Solubility | Completely soluble in water |
| Evaporation Rate | < 1.0 |
| Dynamic Viscosity | 20°C 25 mPas 0°C 60 mPas |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity | Not reactive under normal conditions. Will react with water or steam to produce toxic and corrosive fumes. Reacts with carbonates to generate carbon dioxide gas, and with cyanides and sulfides to form poisonous hydrogen cyanide and hydrogen sulfide respectively |
| Chemical Stability | Stable under ordinary conditions of use and storage. Concentrated solutions react violently with water, spattering and liberating heat. |
| Possibility of Hazardous Reactions | None under normal processing |
| Conditions to Avoid | Avoid heat, sparks, open flames and other ignition sources. Heat, moisture, incompatibles. Keep separated from incompatible substances. |
| Incompatible Materials | Vigorous reactions with water; alkaline solutions; metals, metal powder; carbides; chlorates; nitrates; strong oxidizing, reducing, or combustible organic materials. Hazardous gases are evolved on contact with chemicals such as cyanides, sulfides, and carbides. |
| Hazardous Decomposition Products | Releases sulfur dioxide at extremely high temperatures. Toxic fumes of oxides of sulfur when heated to decomposition. |
| Hazardous Polymerization | Hazardous polymerization does not occur. |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| | |
|--------------------|---|
| Skin | Causes severe skin burns |
| Eyes | Causes severe eye damage |
| Respiratory | May cause irritation to the mucous membranes and upper respiratory tract. |
| Ingestion | May be harmful if swallowed. |

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------------|--------------------|-------------|-----------------------------------|
| Sulfuric Acid 7664-93-9 | = 2140 mg/kg (Rat) | - | = 510 mg/m ³ (Rat) 2 h |

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity

IARC has classified "strong inorganic acid mist containing sulfuric acid" as a Category 1 carcinogen, substance that is carcinogenic to humans. This classification does not apply to liquid forms of sulfuric acid. Inorganic mist is not generated under normal use of this product.

| | | |
|--------------|---------|----------------------------|
| IARC | Group 1 | Carcinogenic to Humans |
| ACGIH | A2 | Suspected Human Carcinogen |
| NTP | Known | Known Carcinogen |
| OSHA | X | Present |

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Signs & Symptoms of Exposure

| | |
|--------------------|---|
| Skin | Causes severe skin burns |
| Eyes | Causes severe eye damage |
| Respiratory | May cause irritation to the mucous membranes and upper respiratory tract. |
| Ingestion | Irritation and corrosive burns to mouth, throat, and stomach. |

| | |
|---------------------------------------|--|
| Chronic Toxicity | Chronic inhalation may be harmful |
| Mutagenicity | No data available to indicate product or any components present are mutagenic or genotoxic |
| Specific Target Organ Toxicity | May cause respiratory irritation |
| Reproductive Toxicity | This product is not expected to cause reproductive or developmental effects |
| Respiratory/Skin Sensitization | Not a respiratory or skin sensitizer |

12. ECOLOGICAL INFORMATION**Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|----------------------------|----------------------|---|----------------------------|-------------------------------------|
| Sulfuric Acid 7664-93-9 | | 500: 96 h Brachydanio rerio mg/L LC50 static | | 29: 24 h Daphnia magna mg/L EC50 |

| | |
|--------------------------------------|--|
| Persistence and Degradability | When released into the soil, this material may leach into groundwater. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition. When released into the air, this material may be removed from the atmosphere to a moderate extent by dry deposition. |
| Bioaccumulative Potential | Not determined. |
| Mobility in Soil | Not determined |
| Other Adverse Effects | Not determined |

13. DISPOSAL CONSIDERATIONS

| | |
|-------------------------------|---|
| Disposal of Wastes | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated Packaging | Disposal should be in accordance with applicable regional, national and local laws and regulations. |

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

California Hazardous Waste Status

| Chemical Name | California Hazardous Waste Status |
|----------------------------|--|
| Sulfuric Acid 7664-93-9 | Toxic Corrosive |

14. TRANSPORTATION INFORMATION

| | |
|---------------|--|
| US DOT | UN/ID No UN2796 Proper Shipping Name Sulfuric acid Hazard Class 8 Packing Group II Reportable Quantity (RQ) 1000 lbs |
| IATA | UN/ID No UN2796 Proper Shipping Name Sulfuric acid Hazard Class 8 Packing Group II |
| IMDG | UN/ID No UN2796 Proper Shipping Name Sulfuric acid Hazard Class 8 Packing Group II |

15. REGULATORY INFORMATION

International Inventories

| | |
|---------------|--------|
| TSCA | Listed |
| DSL | Listed |
| NDSL | Listed |
| EINECS | Listed |
| ELINCS | Listed |
| ENCS | Listed |
| KECL | Listed |
| PICCS | Listed |
| AICS | Listed |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|----------------------------|--------------------------|----------------|---|
| Sulfuric Acid 7664-93-9 | 1000 lb | 1000 lb | RQ 1000 lb final RQ RQ 454 kg final RQ |

SARA 311/312 Hazard Categories

| | |
|--|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | Yes |

SARA 313

| Chemical Name | CAS No | Weight-% | SARA 313 - Threshold Values % |
|---------------------------|-----------|----------|-------------------------------|
| Sulfuric Acid - 7664-93-9 | 7664-93-9 | 1-51 | 1.0 |

CWA (Clean Water Act)

| Component | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--|-----------------------------|------------------------|---------------------------|----------------------------|
| Sulfuric Acid 7664-93-9 (1-51) | 1000 lb | | | X |

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals.

| Chemical Name | California Proposition 65 |
|---------------------------|---------------------------|
| Sulfuric Acid - 7664-93-9 | Carcinogen |

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|----------------------------|------------|---------------|--------------|
| Sulfuric Acid 7664-93-9 | X | X | X |

16. OTHER INFORMATION

| Revision | Date |
|---|----------|
| Formatting & precautionary statements updated | 4/7/2022 |
| | |
| | |

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