

Revision Date: 03-29-2016

SAFETY DATA SHEET

1. Identification

Product identifier: Sulfuric Acid, 20-30%

Other means of identification

CAS No.: 7664-93-9

Recommended use and restriction on use

Recommended use: Not available.
Restrictions on use: Not known.

Details of the supplier of the safety data sheet

Manufacturer

Company Name: Quality Environmental Containers, Inc.

Address: P.O. Box 1160

Beaver, WV 25813

Telephone: Customer Service: 304-255-3900

Fax: 304-255--3901 E-mail: info@gecusa.com

Emergency telephone number:

CHEMTREC: 1-800-424-9300 within US and Canada CHEMTREC: 1-703-527-3887 outside US and Canada

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Corrosive to metals Category 1

Health Hazards

Skin Corrosion/Irritation Category 1
Serious Eye Damage/Eye Irritation Category 1
Carcinogenicity Category 1A
Specific Target Organ Toxicity - Category 3

Single Exposure

Environmental Hazards

Acute hazards to the aquatic Category 3

environment

Label Elements

Hazard Symbol:





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Signal Word: Danger

Hazard Statement: May be corrosive to metals.

Causes severe skin burns and eye damage.

May cause cancer by inhalation. May cause respiratory irritation.

Harmful to aquatic life.

Precautionary Statement

Prevention: Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Use personal protective equipment as required. Keep only in original container. Wash thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response: IF exposed or concerned: Get medical advice/attention. Absorb spillage to

prevent material damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly

closed. Store in corrosive resistant container with a resistant inner liner.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
SULFURIC ACID		7664-93-9	20 - 30%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Do

NOT induce vomiting. If vomiting occurs, keep head low so that stomach

content doesn't get into the lungs.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If breathing stops,

provide artificial respiration. Call a physician or poison control center

immediately.



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Skin Contact: Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse.

Destroy or thoroughly clean contaminated shoes.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Call a physician or poison control center

immediately. In case of irritation from airborne exposure, move to fresh air.

Most important symptoms/effects, acute and delayed

Symptoms: Causes digestive tract burns. Causes severe skin and eye burns.

Symptoms may be delayed.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire-fighting measures

General Fire Hazards: The product is non-combustible. Fire may produce irritating, corrosive

and/or toxic gases.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Foam, carbon dioxide or dry powder.

Unsuitable extinguishing

media:

Do not use water as an extinguisher.

Specific hazards arising from

the chemical:

Product is acidic. Wear appropriate protective gear if spilled during

firefighting.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to

flames with water until well after the fire is out.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning

up:

Neutralize spill area and washings with soda ash or lime. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures: Dike for

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform

authorities if large amounts are involved.



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Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so. Avoid discharge into drains, water courses or onto

the ground.

7. Handling and storage

Precautions for safe handling: Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Wear appropriate personal protective equipment. Do not get in eyes, on skin, on clothing. Do not taste or swallow. Do not eat, drink or smoke when using the product. Wash hands thoroughly after handling. Use caution when adding this material to water. Add material slowly when mixing with water. Do not add water to the

material; instead, add the material to the water.

Conditions for safe storage,

including any incompatibilities:

Do not store in metal containers. Store in corrosive resistant container with a resistant inner liner. Keep in a cool, well-ventilated place. Keep container

tightly closed. Store in a dry place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	type	Exposure Limit Values	Source
SULFURIC ACID - Thoracic fraction.	TWA	0.2 mg/m3	US. ACGIH Threshold Limit Values (2011)
SULFURIC ACID	REL	1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	1 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) 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. An eye wash and safety shower must be available in the

immediate work area.

Eye/face protection: Wear safety glasses with side shields (or goggles) and a face shield.

Skin Protection

Hand Protection: Chemical resistant gloves

Other: Wear suitable protective clothing.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Chemical

respirator with acid gas cartridge.

Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Provide eyewash station and safety shower.



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9. Physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Colorless
Odor: Odorless

Odor threshold:

pH:

0.3 (49.04 g/l,)

Melting point/freezing point:

Initial boiling point and boiling range:

Flash Point:

Evaporation rate:

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

Solubility(ies)

Solubility in water:
Solubility (other):

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Completely Soluble

No data available.

No data available.

No data available.

No data available.

10. Stability and reactivity

Reactivity: Reacts violently with strong alkaline substances.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

Conditions to avoid: Heat. Moisture. Contact with incompatible materials.

Incompatible Materials: Water. Cyanides. Strong oxidizing agents. Strong reducing agents. Metals.

Halogens. Organic compounds. Potassium.

Hazardous Decomposition

Products:

Oxides of sulfur.

11. Toxicological information

Information on likely routes of exposure

Ingestion: May cause burns of the gastrointestinal tract if swallowed.

Inhalation: Irritating to respiratory system. May cause damage to mucous membranes

in nose, throat, lungs and bronchial system.



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Skin Contact: Causes severe skin burns.

Eye contact: Causes serious eye damage.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: No data available.

Dermal

Product:

No data available.

Inhalation

Product: No data available.

Specified substance(s):

SULFURIC ACID LC 50 (Guinea pig, 8 h): 0.03 mg/l

LC 50 (Rat, 4 h): 0.375 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: Causes severe skin burns.

Serious Eye Damage/Eye Irritation

Product: Causes serious eye damage.

Respiratory or Skin Sensitization

Product: Not a skin sensitizer.

Carcinogenicity

Product: May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

SULFURIC ACID Overall evaluation: 1. Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

SULFURIC ACID Known To Be Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No mutagenic components identified

In vivo

Product: No mutagenic components identified

Reproductive toxicity

Product: No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure

Product: Respiratory tract irritation.

Specific Target Organ Toxicity - Repeated Exposure

Product: None known.



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Aspiration Hazard

Product: Not classified

Other effects: None known.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

SULFURIC ACID LC 50 (Starry, european flounder (Platichthys flesus), 48 h): 100 - 330 mg/l

Mortality

LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 42 mg/l Mortality

LC 50 (Goldfish (Carassius auratus), 96 h): 17 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

SULFURIC ACID LC 50 (Common shrimp, sand shrimp (Crangon crangon), 48 h): 70 - 80

mg/I Mortality

LC 50 (Aesop shrimp (Pandalus montagui), 48 h): 42.5 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: There are no data on the degradability of this product.

BOD/COD Ratio

Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Product: No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility in Soil: The product is water soluble and may spread in water systems.



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Other Adverse Effects: The product contains a substance which is harmful to aquatic organisms.

The product may affect the acidity (pH-factor) in water with risk of harmful

effects to aquatic organisms.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local

laws.

Since emptied containers retain product residue, follow label warnings even **Contaminated Packaging:**

after container is emptied.

14. Transport information

DOT

UN Number: UN 2796 **UN Proper Shipping Name:** Sulfuric acid

Transport Hazard Class(es)

Class(es): 8 Label(s): 8 Packing Group: Ш

Marine Pollutant: Not a Marine Pollutant

Special precautions for user:

IMDG

UN Number: UN 2796

UN Proper Shipping Name: SULPHURIC ACID (WITH NOT MORE THAN 51% ACID)

Transport Hazard Class(es)

Class(es): 8 Label(s): 8 EmS No.: F-A, S-B

Packing Group:

Marine Pollutant: Not a Marine Pollutant

Special precautions for user:

IATA

UN Number: UN 2796 Proper Shipping Name: Sulphuric acid

Transport Hazard Class(es):

Class(es): 8 8 Label(s):

Marine Pollutant: Not a Marine Pollutant

Packing Group:

Special precautions for user:

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity Reportable quantity

SULFURIC ACID 1000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute (Immediate) Chronic (Delayed)



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SARA 302 Extremely Hazardous Substance

Reportable

<u>Chemical Identity</u> <u>quantity</u> <u>Threshold Planning Quantity</u>

SULFURIC ACID 1000 lbs. 1000 lbs.

SARA 304 Emergency Release Notification

Chemical Identity Reportable quantity

SULFURIC ACID 1000 lbs.

SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

SULFURIC ACID 500lbs

SARA 313 (TRI Reporting)

Reporting Reporting threshold for

threshold for manufacturing and

Chemical Identityother usersprocessingSULFURIC ACID10000 lbs25000 lbs.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity Reportable quantity

SULFURIC ACID Reportable quantity: 1000 lbs.

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

Chemical Identity Reportable quantity

SULFURIC ACID 10000 lbs

US State Regulations

US. California Proposition 65

SULFURIC ACID Carcinogenic.

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

Chemical Identity

SULFURIC ACID

US. Massachusetts RTK - Substance List

Chemical Identity

SULFURIC ACID

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

SULFURIC ACID

US. Rhode Island RTK

Chemical Identity

SULFURIC ACID



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Inventory Status:

Australia AICS: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory On or in compliance with the inventory **EU EINECS List: EU ELINCS List:** Not in compliance with the inventory. Japan (ENCS) List: On or in compliance with the inventory EU No Longer Polymers List: Not in compliance with the inventory. China Inv. Existing Chemical Substances: On or in compliance with the inventory Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory

Korea Existing Chemical Substances.

Canada NDSL Inventory:

Philippines PICCS:

US TSCA Inventory:

New Zealand Inventory of Chemicals:

On or in compliance with the inventory.

Switzerland Consolidated Inventory:

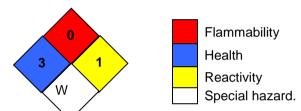
Japan ISHL Listing:

Japan Pharmacopoeia Listing:

Not in compliance with the inventory.

16.Other information, including date of preparation or last revision

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible W: Water-reactive

Issue Date: 03-29-2016

Revision Date: No data available.

Version #: 1.1

Further Information: No data available.



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Disclaimer:

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