

Revision Date: 10-30-2015

SAFETY DATA SHEET

1. Identification

Product identifier: SULFURIC ACID, < 10%

Other means of identification

CAS No.: 7664-93-9

Recommended use and restriction on use

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

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: Quality Environmental Containers, Inc. Address: 607 Industrial Park Road • PO Box 1160

Beaver, WV 25813

Telephone: Customer Service: 800-255-3950

e-mail: info@qecusa.com

Emergency telephone number:

Chemtrec: 800-424-9300

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Corrosive to metals Category 1

Health Hazards

Skin Corrosion/Irritation Category 1A
Serious Eye Damage/Eye Irritation Category 1

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Causes severe skin burns and eye damage.

May be corrosive to metals.

Precautionary Statement

Prevention: Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly

after handling. Wear protective gloves/protective clothing/eye



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protection/face protection. Keep only in original container.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or

hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. 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. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Absorb spillage to prevent material damage.

Storage: Store locked up. 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	0.1 - 10%

^{*} 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: Rinse mouth. Get medical attention if symptoms occur. 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. Apply artificial

respiration if victim is not breathing Get medical attention if symptoms

persist.

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

removing contaminated clothing and shoes. Get medical attention if irritation persists after washing. 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. Get medical attention if irritation persists after washing. In case of irritation from airborne exposure, move to fresh air.

Most important symptoms/effects, acute and delayed

Symptoms: Causes severe skin and eye burns.

Indication of immediate medical attention and special treatment needed

Treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures



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General Fire Hazards: In case of fire and/or explosion do not breathe fumes.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

None known.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed. Product is highly caustic. Product is acidic. Wear appropriate protective gear if spilled during

fire fighting.

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. Keep upwind. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. See Section 8 of the MSDS for Personal Protective Equipment.

Methods and material for containment and cleaning

up:

Neutralize with lime or soda ash. Neutralize spill area and washings with dilute acetic acid. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for

later recovery and disposal.

Notification Procedures: Prevent entry into waterways, sewer, basements or confined areas. Inform

authorities if large amounts are involved.

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: Wear protective gloves/protective clothing/eye protection/face protection.

> Do not taste or swallow. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Use caution when adding this material to water. See Section 8 of the MSDS for Personal Protective

Equipment. Avoid contact with eyes. Avoid contact with skin.

Conditions for safe storage, including any incompatibilities:

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Store in a cool and well-ventilated place. Store in corrosive resistant container with a resistant inner liner. Do not store in metal

containers.



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8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Joseph Line Laborato Linito							
Chemical Identity	Туре	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. Wear

a full-face respirator, if needed.

Skin Protection

Hand Protection: Chemical resistant gloves

Other: Wear suitable protective clothing.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below

recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter,

cartridge or canister. Contact health and safety professional or

manufacturer for specific information.

Hygiene measures: Provide eyewash station and safety shower. 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. Do not get this material in

contact with skin. Do not get in eyes.

9. Physical and chemical properties

Appearance

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

Odor threshold:

pH:

No data available.



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Flash Point:

Evaporation rate:

No data available.

Flammability (solid, gas):

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

Vapor pressure:

Vapor density:

Relative density:

No data available.

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
Auto-ignition temperature:
No data available.
Decomposition temperature:
No data available.
Viscosity:
No data available.

10. Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous

Reactions:

Hazardous polymerization does not occur.

Conditions to Avoid: Heat, sparks, flames. Contact with incompatible materials.

Incompatible Materials: Strong oxidizing agents. Metals. Chlorinated compounds. Potassium

Sodium. Magnesium Lithium nitrate. Bases. Organic compounds.

Halogens. Metal oxides. Reducing agent.

Hazardous Decomposition

Products:

Fire or excessive heat may produce hazardous decomposition products.

Oxides of sulfur. Oxides of Carbon. Cyanides.

11. Toxicological information

Information on likely routes of exposure

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled.

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.

Specified substance(s):

SULFURIC ACID LD 50 (Rat): 2,140 mg/kg

Dermal

Product: No data available.



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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: This substance has no evidence of carcinogenic properties.

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: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: Not classified

Other Effects: None known.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:



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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.

Other Adverse Effects: Large amounts of the product may affect the acidity (pH-factor) in water with

possible 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. 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.

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

after container is emptied.



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14. Transport informatio	ſ	14	Tran	snort	info	rmatio
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DOT

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

Transport Hazard Class(es)

Class(es): 8
Label(s): 8
Packing Group: II
Marine Pollutant: No

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:
 II

 Marine Pollutant:
 No

IATA

UN Number: UN 2796
Proper Shipping Name: Sulphuric acid

Transport Hazard Class(es):

Class(es): 8
Label(s): 8
Marine Pollutant: No
Packing Group: II

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):

SULFURIC ACID Reportable quantity: 1000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Χ	Acute (Immediate)	Χ	Chronic (Delayed)		Fire		Reactive		Pressure Generating
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SARA 302 Extremely Hazardous Substance

Chemical Identity	RQ	Threshold Planning Quantity
SULFURIC ACID	1000 lbs.	1000 lbs.

SARA 304 Emergency Release Notification

Chemical identity	RQ		
SULFURIC ACID	1000 lbs.		



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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 Identity other users processing

SULFURIC ACID 10000 lbs 25000 lbs.

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

SULFURIC ACID Reportable quantity: 1000 lbs.

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

SULFURIC ACID Threshold quantity: 10000 lbs

US State Regulations

US. California Proposition 65

SULFURIC ACID Carcinogenic.

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

SULFURIC ACID Listed

US. Massachusetts RTK - Substance List

SULFURIC ACID Listed

US. Pennsylvania RTK - Hazardous Substances

SULFURIC ACID Listed

US. Rhode Island RTK

Japan Pharmacopoeia Listing:

SULFURIC ACID Listed

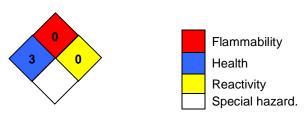
Inventory Status:

Australia AICS: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory EINECS. ELINCS or NLP: On or in compliance with the inventory Japan (ENCS) List: On or in compliance with the inventory China Inv. Existing Chemical Substances: Not in compliance with the inventory. Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory Canada NDSL Inventory: Not in compliance with the inventory. Philippines PICCS: On or in compliance with the inventory On or in compliance with the inventory US TSCA Inventory: New Zealand Inventory of Chemicals: On or in compliance with the inventory Not in compliance with the inventory. Japan ISHL Listing:

Not in compliance with the inventory.

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

NFPA Hazard ID





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Issue Date: 11-25-2014

Revision Date: No data available.

Version #: 1.0

Further Information: No data available.

Disclaimer: THE INFORMATION PRESENTED IN THIS MATERIAL SAFETY DATA

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BASED ON DATA THAT THEY BELIEVE IN THEIR GOOD FAITH

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