

3075 Highland Pkwy STE 200 Downers Grove, IL 60515

SAFETY DATA SHEET

1. Identification

Product identifier: - SULFURIC ACID 1-51%

Other means of identification

SDS number:

000100000005

Recommended use and restriction on use

Recommended use: Not available.

Restrictions on use: Not known.

Emergency telephone number:For emergency assistance Involving chemicals

call CHEMTREC day or night at: 1-800-424-9300. CHEMTREC INTERNATIONAL Tel# 703-527-3887

2. Hazard(s) identification

Hazard classification

Health hazards

Skin corrosion/irritation

Category 1A

Serious eye damage/eye irritation

Category 1

Carcinogenicity

Category 1A

Environmental hazardsAcute hazards Category 3

to the aquatic environment

Label elements

Hazard symbol



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Signal word

Danger

Hazard statement

Corrosive.

Harmful or fatal if swallowed.

Causes severe skin burns and eye damage.

May be corrosive to metals.

May cause cancer. Harmful to aquatic life.

Precautionary statement

Prevention

Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see this label). Wash contaminated clothing before reuse.

Storage

Store in a closed container. Store in a well-ventilated place. Store in a dry place. Store locked up.

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.

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Other hazards which do not

None.

result in GHS classification

3. Composition/information on ingredients

Substances

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
Water		7732-18-5	>=49 - <=99%
Sulfuric Acid		7664-93-9	>=1 - <=51%

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

4. First-aid measures

Ingestion:

Call a physician or poison control center immediately. DO NOT induce

vomiting. Get medical attention immediately. Never give liquid to an

unconscious person.

Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. Perform artificial

respiration if breathing has stopped.

Skin contact:

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

removing contaminated clothing and shoes.

Eye contact:

If in eyes, hold eyes open, flood with water for at least 15 minutes and see

a doctor.

Most important symptoms/effects, acute and delayed

No data available.

Symptoms:

No data avallable.

Indication of immediate medical attention and special treatment needed

Treatment:

No data available.

5. Fire-fighting measures

General fire hazards:

Material reacts with water.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

Do not use water as an extinguisher. Use: Carbon dioxide or dry powder.

media:

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Unsuitable extinguishing

No data available.

media:

Specific hazards arising from the Material reacts with water.

chemical:

Special protective equipment and precautions for firefighters

Special fire fighting

No unusual fire or explosion hazards noted.

procedures:

Special protective equipment for Use standard firefighting procedures an

fire-fighters:

Use standard firefighting procedures and consider the hazards of other

involved materials.

6. Accidental release measures

Personal precautions, protective

containment and cleaning up:

ve Use personal protective equipment.

equipment and emergency procedures:

Methods and material for

Absorb spillage with non-combustible, absorbent material. Dike for later

disposal.

7. Handling and storage

Precautions for safe handling:

Use personal protective equipment as required. Keep away from any possible contact with water, because of violent reaction and possible flash fire. Store away from incompatible materials. Use only with adequate ventilation. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding

procedures.

Conditions for safe storage,

including any incompatibilities:

Keep container tightly closed. Store in a well-ventilated place.

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8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Chemical identity	Туре	Exposure Limit values	Source
Sulfuric Acid - Thoracic	TWA	0.2	US. ACGIH Threshold Limit Values (03
fraction.	ļ	mg/m3	2013)
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)
	TWA	1 mg/m3	US. Tennessee. OELs. Occupational
			Exposure Limits, Table Z1A (06 2008)
	TWA PEL	0.1	US. California Code of Regulations,
		mg/m3	Title 8, Section 5155. Airborne
			Contaminants (02 2012)
	STEL	3 mg/m3	US. California Code of Regulations,
			Title 8, Section 5155. Airborne
			Contaminants (02 2012)

Appropriate engineering controls

Adequate ventilation should be provided so that exposure limits are not

exceeded. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

General information:

Use personal protective equipment as required. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Practice good housekeeping. Provide eyewash station and safety

Eye/face protection:

Use safety goggles and face shield in case of splash risk. Wear approved

safety goggles.

Skin protection

Hand protection:

Wear chemical-resistant gloves. Contact glove manufacturer for specific

information. Wear necessary protective equipment.

Other:

No data available.

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Respiratory protection:

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to

dust/fume at levels exceeding the exposure limits.

Hygiene measures:

Do not eat, drink or smoke when using the product. Observe good

industrial hygiene practices.

9. Physical and chemical properties

Physical state:

Liquid

Form:

No data available.

Color:

No data available.

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No data available.

Odor threshold:

No data available.

pH:

Odor:

1

Melting point/freezing point:

-32 °C 276 °C

Initial boiling point and boiling range:

No data available.

Evaporation rate:

Flash Point:

No data available.

Flammability (solid, gas):

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

No data available.

Flammability limit - lower (%):

No data available.

Explosive limit - upper (%):

No data available.

Explosive limit - lower (%):

No data available.

Vapor pressure:

No data available.

Vapor density:

Solubility(ies)

No data available. No data available.

Relative density:

Solubility in water:

No data available.

Solubility (other):

No data available.

Partition coefficient (n-octanol/water):

No data available.

Auto-ignition temperature: Decomposition temperature:

No data available. No data available.

Viscosity:

No data available.

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10. Stability and reactivity

Reactivity:

No data available.

Chemical stability:

No data available.

Possibility of hazardous

Material is stable under normal conditions.

reactions:

Conditions to avoid:

No data available.

Incompatible materials:

Water. Strong reducing agents. Strong bases. Metals.

Hazardous decomposition

No data available.

products:

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion:

No data available.

Inhalation:

No data available.

Skin contact:

No data available.

Eye contact:

No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product:

ATEmix (): 2,140 mg/kg

Dermal

Product:

No data available.

Inhalation

Product:

No data available.

Specified substance(s):

Sulfuric Acid

LC 50 (Rat,): 375 mg/m3 (, No) 2 (reliable with restrictions)

Repeated dose toxicity

Product:

No data available.

Skin corrosion/irritation

Product:

No data available.

Serious eye damage/eye irritation

Product:

No data available.

Respiratory or skin sensitization

Product:

No data available.

Carcinogenicity

Product:

No data available.

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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 data available.

In vivo

Product:

No data available.

Reproductive toxicity

Product:

No data available.

Specific target organ toxicity - single exposure

Product:

No data available.

Specific target organ toxicity - repeated exposure

Product:

No data available.

Aspiration hazard

Product:

No data available.

Other effects:

No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:

No data available.

Specified substance(s):

Sulfuric Acid

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

Aquatic invertebrates

Product:

No data available.

Chronic hazards to the aquatic environment:

Fish

Product:

No data available.

Aquatic invertebrates

Product:

No data available.

Toxicity to Aquatic Plants

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Product:

No data available.

Persistence and degradability

Biodegradation

Product:

No data available.

BOD/COD ratio

Product:

No data available.

Bioaccumulative potential

Bioconcentration factor (BCF)

Product:

No data available.

Partition coefficient n-octanol / water (log Kow)

Product:

No data available.

Mobility in soil:

No data available. Known or predicted distribution to environmental compartments

Water

No data available.

Sulphuric acid

No data available.

Known or predicted distribution to environmental compartments

Sulphuric acid

No data available.

13. Disposal considerations

Disposal instructions:

All waste must be handled in accordance with Waste Act (No. 185/2001

Coll.), as amended, and related regulations, as amended.

Contaminated packaging:

No data available.

14. Transport information

DOT

UN number:

UN 2796

UN proper shipping name:

Sulfuric acid

Transport hazard class(es)

Class:

8

Label(s):

8

Packing group:

П

Marine Pollutant:

Not regulated.

Special precautions for user:

15. Regulatory information

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US federal regulationsUS. 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

Not listed.

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.

SARA 311/312 Hazardous chemical

Chemical identity

Threshold Planning Quantity

Sulfuric Acid

500lbs

SARA 313 (TRI reporting)

Reporting

threshold for

Reporting threshold for

Chemical identity

other users

manufacturing and 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.

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

Sulfuric Acid

Listed

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Inventory Status: Australia AICS:

Canada DSL Inventory List:

EU EINECS List: EU ELINCS List: Japan (ENCS) List:

EU No Longer Polymers List:

China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI): Canada NDSL Inventory:

Philippines PICCS:

New Zealand Inventory of Chemicals:

Japan ISHL Listing:

Japan Pharmacopoeia Listing:

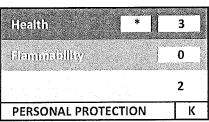
US TSCA Inventory:

Not in compliance with the inventory.

On or in compliance with the inventory

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

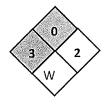
HMIS Hazard ID

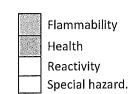


K - Hood, Gloves, Protective Suit & Boots

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health effect

NFPA Hazard ID





Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

W: Water-reactive

Issue date:

05/08/2015

Revision date:

No data available.

Version #:

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Further information:

No data available.

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Univar USA Inc Material Safety Data Sheet

For Additional Information contact MSDS Coordinator during business hours, Pacific time: (425) 889-3400

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