Printing date 08/03/2021

Reviewed on 08/03/2021



Printing date 08/03/2021

Reviewed on 08/03/2021

Trade name: Sulfuric Acid 10% v/v Aqueous Solution

(C) Wash thoroughly after handling.	Contd. of page 1)
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
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	d easy to do.
Continue rinsing.	
Immediately call a poison center/doctor.	
IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Wash contaminated clothing before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
· Classification system:	
·NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = 0	
3 0 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH T3 Health = $*3$	
FIRE 0 $Fire = 0$	
REACTIVITY Reactivity = 0	
· Other hazards	
· Results of PBT and vPvB assessment	
• PBT: Not applicable.	
· vPvB: Not applicable.	
3 Composition/information on ingredients	
· Chemical characterization: Mixtures	
· Description: Mixture of the substances listed below with nonhazardous additions.	
· Dangerous components:	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	16.974%
. Table of Nonhazardous Ingredients	
· Γαρίο οτ Νουραγαγάσημε Ιμονομορίε	

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

*

4 First-aid measures

· Description of first aid measures

• General information: Immediately remove any clothing soiled by the product.

• After inhalation: In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

• After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

• Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)

83.026%

- US

Printing date 08/03/2021

Reviewed on 08/03/2021

Trade name: Sulfuric Acid 10% v/v Aqueous Solution

• *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 *Fire-fighting measures*

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures	
Mount respiratory protective device.	
Wear protective equipment. Keep unprotected persons away.	
• Environmental precautions:	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water.	
• Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing agent.	
Dispose contaminated material as waste according to item 13.	
Ensure adequate ventilation.	
· Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
· Protective Action Criteria for Chemicals	
· PAC-1:	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	$0.20 \ mg/m^3$
· PAC-2:	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	$8.7 mg/m^3$
· PAC-3:	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	160 mg/m³

7 Handling and storage

· Handling:

• **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.

• Information about protection against explosions and fires: Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles: No special requirements.

(Contd. on page 4)

(Contd. of page 2)

US

Printing date 08/03/2021

Reviewed on 08/03/2021

Trade name: Sulfuric Acid

10% v/v Aqueous Solution

(Contd. of page 3)

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

• Components with limit values that require monitoring at the workplace:

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

PEL Long-term value: 1 mg/m³

REL Long-term value: 1 mg/m³

TLV Long-term value: 0.2* mg/m³ *as thoracic fraction, A2

· Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin.
- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

(Contd. on page 5)

(Contd. of page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 08/03/2021

Reviewed on 08/03/2021

Trade name: Sulfuric Acid 10% v/v Aqueous Solution

· Body protection: Protective work clothing

9 Physical and chemical properties		
 Information on basic physical and ch General Information Appearance: 	emical properties	
Form:	Liquid	
Color:	Clear	
· Odor:	Odorless	
• Odor threshold:	Not determined.	
· pH-value at 20 °C (68 °F):	<2	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
• Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
• Density at 20 °C (68 °F):	1.14258 g/cm ³ (9.53483 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	83.0 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.0 %	
· Other information	No further relevant information available.	

(Contd. on page 6)

Printing date 08/03/2021

Reviewed on 08/03/2021

Trade name: Sulfuric Acid

10% v/v Aqueous Solution

(Contd. of page 5)

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.
- \cdot on the eye:

Strong caustic effect.

- Strong irritant with the danger of severe eye injury.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

· NTP (National Toxicology Program)

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

(Contd. on page 7)

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Printing date 08/03/2021

Reviewed on 08/03/2021

Trade name: Sulfuric Acid 10% v/v Aqueous Solution

(Contd. of page 6)

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

• Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

*

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
DOT, IMDG, IATA	UN2796
UN proper shipping name	
DOT	Sulfuric acid solution
IMDG, IATA	SULFURIC ACID solution
Transport hazard class(es)	
DOT	
J. Z	
CORROSIVE	
8	
Class	8 Corrosive substances
Label	8
IMDG, IATA	
<u>uis</u>	
Class	8 Corrosive substances 8
Label	δ
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kem	
EMS Number:	F- A , S - B
Segregation groups	Acids
Stowage Category	В

Printing date 08/03/2021

Reviewed on 08/03/2021

Trade name: Sulfuric Acid 10% v/v Aqueous Solution

(Contd. of page 7
Not applicable.
On passenger aircraft/rail: 1 L
On cargo aircraft only: 30 L
1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
UN 2796 SULFURIC ACID SOLUTION, 8, II

15 Regulatory information

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 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	
· Section 313 (Specific toxic chemical listings):	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	
· TSCA (Toxic Substances Control Act):	
Water	ACTIVE
Sulfuric Acid 96 - 98%	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	A2
·NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	

(Contd. on page 9)

US

Printing date 08/03/2021

Reviewed on 08/03/2021

Trade name: Sulfuric Acid 10% v/v Aqueous Solution

GHS labe Hazard pi	(Contd. of page <i>l elements</i> The product is classified and labeled according to the Globally Harmonized System (GHS).
mazara pi	ciograms
EZ.	
\mathbf{X}	
GHS05	GHS08
Signal wo	rd Danger
Hazard-de	etermining components of labeling:
Sulfuric A	<i>cid</i> 96 - 98%
Hazard st	atements
Causes se	vere skin burns and eye damage.
May cause	
Precaution	nary statements
	ecial instructions before use.
Do not ha	ndle until all safety precautions have been read and understood.
	eathe dusts or mists.
Wash thor	oughly after handling.
	ective gloves/protective clothing/eye protection/face protection.
	ed: Rinse mouth. Do NOT induce vomiting.
	(or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	ED: Remove person to fresh air and keep comfortable for breathing.
	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to d
Continue 1	
	ely call a poison center/doctor.
	d or concerned: Get medical advice/attention.
	eatment (see on this label).
	taminated clothing before reuse.
Store lock	
	f contents/container in accordance with local/regional/national/international regulations.
	regulations:
	l classification according to Decree on Hazardous Materials:
Carcinoge	enic hazardous material group III (dangerous).
Informati	on about limitation of use:
	are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation
	s can be made by the authorities in certain cases.
	safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

· Contact:

- Date of preparation / last revision Creation date for SDS 12-02-2015. STN Revision 1.0.07-13-2021: upodated hazard inform
- *Revision 1.0, 07-13-2021: upodated hazard information. STN 08/03/2021 / 1.1* • *Abbreviations and acronyms:*
- IMDG: International Maritime Code for Dangerous Goods

(Contd. on page 10)

US

Printing date 08/03/2021

Reviewed on 08/03/2021

Trade name: Sulfuric Acid 10% v/v Aqueous Solution

	(Contd. of page 9)
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Skin Corr. 1A: Skin corrosion/irritation – Category 1A	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Carc. 1A: Carcinogenicity – Category 1A	
\cdot * Data compared to the previous version altered.	
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