

Date of issue: 2022/09/26

Safety Data Sheet

 Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Sulfate ion standard solution(1,000mg/L) SDS No. : M7497E-1 Relevant identified uses of the substance or mixture and uses advised against Research and Development Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN Division: Chemical Safety Management Department Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607 e-mail address: kagakuhinanzenkanri@kishida.co.jp

2. Hazards identification GHS classification and label elements of the product Classification of the substance or mixture Label elements No GHS label element No Signal word

3. Composition/information on ingredients Mixture/Substance selection:

Mixture Ingredient name:Sodium sulfate Content (%):0.15 Chemical formula:Na2SO4 Chemicals No, Japan:1-501 CAS No.:7757-82-6 MW:142.04 ECNO:231-820-9

Ingredient name:Water Content (%):99 Chemical formula:H2O CAS No.:7732-18-5 MW:18.02 ECNO:231-791-2 Note : The figures shown above are not the specifications of the product.



4. First−aid mea	sures
Descriptions	of first-aid measures
IF INHALE	D
Remo	ove person to fresh air and keep comfortable for breathing.
Call a	a POISON CENTER/doctor/physician if you feel unwell.
IF ON SKI	SKIN (or hair)
Take	off immediately all contaminated clothing. Rinse skin with water or shower.
If skir	in irritation or rash occurs: Get medical advice/attention.
IF IN EYES	
Rinse	e cautiously with water for several minutes. Remove contact lenses, if present and easy
to do	. Continue rinsing.
If eye	e irritation persists: Get medical advice/attention.
IF SWALLO	OWED
Rinse	e mouth.
Call a	a POISON CENTER/doctor/physician if you feel unwell.
5. Fire-fighting r	
Extinguishing	
	ktinguishing media
	appropriate extinguishing media suitable for surrounding facilities.
	extinguishing media
	itable extinguishing media data is not available.
	rds arising from the substance or mixture
	ainers may explode when heated.
	may produce irritating, corrosive and/or toxic gases.
Advice for fire	-
	re-fighting measures
	uate non-essential personnel to safe area.
	otective equipment and precautions for fire-fighters
	fire resistant or flame retardant clothing.
	protective gloves/protective clothing/eye protection/face protection.
	ghters should wear self-contained breathing apparatus with full face peace operated
positi	ive pressure mode.
6. Accidental rel	ease measures
Personnel pre	ecautions, protective equipment and emergency procedures
Venti	ilate area until material pick up is complete.
Wear	proper protective equipment.
Environmenta	Il precautions
Preve	ent spills from entering sewers, watercourses or low areas.
Methods and	materials for containment and cleaning up
Abso	rb spill with inert material (dry sand, earth, et al), then place in a chemical waste
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container.

Preventive measures for secondary accident

Collect spillage.



7. Handling and storage	
Precautions for safe handling	
Preventive measures	
(Protective measures against fire and explosion)	
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	0
(Exhaust/ventilator)	
Exhaust/ventilator should be available.	
(Safety treatments)	
Avoid contact with skin.	
Avoid contact with eyes.	
Safety Measures	
Wear protective gloves, protective clothing or face protection.	
When using do not eat, drink or smoke.	
Any incompatibilities	
See "10.Stability and Reactivity"	
Storage	
Conditions for safe storage	
Keep container tightly closed.	
Store in a cool, dry place. Do not store in direct sunlight.	
Container and packaging materials for safe handling	
Glass	
Polyethylene	
8. Exposure controls/personal protection	_
Control parameters	
Exposure controls	
Appropriate engineering controls	
Do not use in areas without adequate ventilation.	

Wear protective gloves.

Individual protection measures

Respiratory protection

Eye protection

Hand protection

Wear eye/face protection.

Wear respiratory protection.

Eye wash station should be available. Washing facilities should be available.

9. Physical and Chemical Properties

Information on basic physical and chemical properties Physical state: Liquid Color: Colorless, Clear Odor: None Melting point/Freezing point data is not available. Boiling point or initial boiling point data is not available. Boiling range data is not available. Flammability (gases, liquids and solids) data is not available. Lower and upper explosion limit/flammability limit data is not available. Flash point data is not available. Auto-ignition temperature data is not available.



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Decomposition temperature data is not available. pH data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: Soluble n-Octanol/water partition coefficient data is not available. Vapor pressure data is not available. Density and/or relative density: 1.0 Relative vapor density (Air=1) data is not available. Particle characteristics data is not available.

10. Stability and Reactivity
Reactivity
Not available.
Chemical stability
Stable under normal storage/handling conditions.
Possibility of hazardous reactions
(Sodium sulfate)
Decomposes on heating. This produces sulfur oxides and sodium oxides. (ICSC 0952)
Conditions to avoid
Contact with fire source.
Incompatible materials
Not available.
Hazardous decomposition products
Sulfur oxides, Sodium oxides

11. Toxicological Information Information on toxicological effects Acute toxicity Acute toxicity (Oral) [GHS Cat. Japan, base data] (Sodium sulfate) rat LD50 >10000mg/kg (SIDS, 2006) Irritant properties Skin corrosion/irritation data is not available. Serious eye damage/irritation [GHS Cat. Japan, base data] (Sodium sulfate) rabbit mild irritation (OECD TG405) (SIDS, 2006) Allergenic and sensitizing effects data is not available. Mutagenic effects data is not available. Carcinogenic effects data is not available. Reproductive toxicity data is not available. STOT STOT-single exposure data is not available. STOT-repeated exposure data is not available. Aspiration hazard data is not available.



2. Ecologic	al Information
Ecotoxici	ty
Aquatic t	oxicity
Hazard	lous to the aquatic environment (Acute)
[(GHS Cat. Japan, base data]
(9	Sodium sulfate)
A	lgae (selenastrum) EC50=1584.583mg/L/72hr; Crustacea (Ceriodaphnia reticulata)
E	C50=3150.21mg/L/48hr; Fish (Pimephales promelas) LC50=7960mg/L/96hr (AQUIRE, 2019)
Hazard	lous to the aquatic environment (Long-term)
[(GHS Cat. Japan, base data]
(9	Sodium sulfate)
	lgae (selenastrum) NOEC=1060mg/L SO4/72hr (as NaSO4: 1265mg/L); Crustacea (Ceriodaphnia
	eticulata) NOEC=610mg/L SO4/7days (as NaSO4: 728mg/L); Fish (rainbow trout) NOEC=205mg/L
S	;O4/31days (as NaSO4: 245mg/L) (AQUIRE, 2019)
Water sol	
(5	Sodium sulfate)
	ery good (ICSC, 2005)
Persisten	ce and degradability
P	Persistence and degradability data is not available.
Bioaccum	nulative potential
В	lioaccumulative potential data is not available.
Mobility in	
	lobility in soil data is not available.
	verse effects
C	Dzone depleting chemical data is not available.

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

14. Transport Information		
UN No. or ID No.: Not applicable		
Not applicable to IMDG Code		
Not applicable to IATA Dangerous Goods Regulations		
Environmental hazards		
MARPOL Annex III – Prevention of pollution by harmful substances		
Marine pollutants (yes/no) : no		
Maritime transport in bulk according to IMO instruments		
Noxious Liquid ; Cat. Z		
Sodium sulfate		
Non Noxious Liquid ; Cat. OS		
Water		

15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory Water; Sodium sulfate



Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

The product is not applicable to GHS classifications.

Reference Book

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39–18) IATA Dangerous Goods Regulations (62nd Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2022 TLVs and BEIs. (ACGIH) Supplier's data/information

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2020).