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Safety Data Sheet

 Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Nitrate ion standard solution (1,000mg/L) SDS No. : M5637E-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 nitrate Content (%):0.14 Chemical formula:NaNO3 Chemicals No, Japan:1-484 CAS No.:7631-99-4 MW:84.99 ECNO:231-554-3

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.



I. First-aid mea	isures		
Descriptions	of first-aid measures		
IF INHALE	D		
Rem	ove person to fresh air and keep comfortable for breathing.		
Call a POISON CENTER/doctor/physician if you feel unwell.			
IF ON SKI	N (or hair)		
Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation or rash occurs: Get medical advice/attention.			
Rinse cautiously with water for several minutes. Remove contact lenses, if present and			
to do	o. Continue rinsing.		
If eye	e irritation persists: Get medical advice/attention.		
IF SWALL	OWED		
Rinse	e mouth.		
Call a	a POISON CENTER/doctor/physician if you feel unwell.		
. Fire-fighting			
Extinguishing			
	xtinguishing media		
	appropriate extinguishing media suitable for surrounding facilities.		
	extinguishing media		
	itable extinguishing media data is not available.		
-	ards arising from the substance or mixture		
	ainers may explode when heated.		
	may produce irritating, corrosive and/or toxic gases.		
Advice for fir	-		
	re-fighting measures		
	uate non-essential personnel to safe area.		
	otective equipment and precautions for fire-fighters		
	r fire resistant or flame retardant clothing.		
	r protective gloves/protective clothing/eye protection/face protection.		
	ighters should wear self-contained breathing apparatus with full face peace operated		
posit	ive pressure mode.		
A a a idantal ra	lease measures		
	ecautions, protective equipment and emergency procedures		
	ilate area until material pick up is complete.		
	r proper protective equipment.		
	al precautions		
	ent spills from entering sewers, watercourses or low areas.		
	materials for containment and cleaning up		

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste 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. N 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.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection Wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

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.



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 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 nitrate) Decomposes on heating. This increases fire hazard. The substance is a strong oxidant. It reacts with combustible and reducing materials. This generates fire and explosion hazard. (ICSC 0185) Conditions to avoid Contact with incompatible materials. Contact with fire source. Incompatible materials Reducing agents, Combustible materials Hazardous decomposition products Nitrogen oxides

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11. Toxicological Information
Information on toxicological effects
Acute toxicity
   Acute toxicity (Oral)
        [GHS Cat. Japan, base data]
        (Sodium nitrate)
        rat LD50=3700mg/kg (EPA RED, 1991)
Irritant properties
   Skin corrosion/irritation data is not available.
   Serious eye damage/irritation
        [GHS Cat. Japan, base data]
        (Sodium nitrate)
        corneal opacity recover within 72hours (EPA RED, 1991)
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.
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Aspiration hazard data is not available.
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12. Ecological Information		
Ecotoxicity		
Aquatic toxicity		
Hazardous to the aquatic environment (Acute)		
[GHS Cat. Japan, base data]		
(Sodium nitrate)		
Fish (rainbow trout) LC50=1685mg/L/96hr (SIDS, 2008)		
Water solubility		
(Sodium nitrate)		
73 g/100 ml (PHYSPROP_DB, 2009)		
Persistence and degradability		
Persistence and degradability data is not available.		
Bioaccumulative potential		
Bioaccumulative potential data is not available.		
Mobility in soil		
Mobility in soil data is not available.		
Other adverse effects		
Ozone depleting chemical data is not available.		

13. Disposal considerations

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 Non Noxious Liquid ; Cat. OS Water

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture Chemicals listed in TSCA Inventory Sodium nitrate; Water 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) 2021 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).