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Safety Data Sheet

 Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Nitrate nitrogen standard solution(1,000mg/L) SDS No. : J5662E-2 Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku,Osaka ,JAPAN Division: Safety Management Dept. of Chemicals 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 (Note) GHS classification without description: Not classified/Classification not possible Label elements No GHS label element

No Signal word

3. Composition/information on ingredients Mixture/Substance selection: Mixture Ingredient name:Potassium nitrate

> Content (%):0.72 Chemical formula:KNO3 Chemicals No, Japan:1-449 CAS No.:7757-79-1 MW:101.10 ECNO:231-818-8

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. The content of products may exceed the figures shown above.



4. First-aid mea	asures	
Descriptions	of first-aid measures	
IF INHALE	IF INHALED	
Rem	ove person to fresh air and keep comfortable for breathing.	
Call	a POISON CENTER or doctor/physician if you feel unwell.	
IF ON SKI	IN (or hair)	
Take	e off immediately all contaminated clothing. Rinse skin with water/shower.	
	in irritation or rash occurs: Get medical advice/attention.	
IF IN EYE	S	
Rins	e cautiously with water for several minutes. Remove contact lenses, if present and easy	
to de	o. Continue rinsing.	
If ey	e irritation persists: Get medical advice/attention.	
IF SWALL	OWED	
Rins	e mouth.	
Call	a POISON CENTER or doctor/physician if you feel unwell.	
5. Fire-fighting	measures	
Extinguishing	-	
Suitable e	extinguishing media	
Use	appropriate extinguishing media suitable for surrounding facilities.	
Unsi	uitable extinguishing media data is not available.	
Specific haza	ards arising from the substance or mixture	
Cont	tainers may explode when heated.	
Fire	may produce irritating, corrosive and/or toxic gases.	
Advice for fi	refighters	
Specific fi	re-fighting measures	
Evad	cuate non-essential personnel to safe area.	
Special pr	otective equipment and precautions for fire-fighters	
Wea	r fire/flame resistant/retardant clothing.	
Wea	r protective gloves/protective clothing/eye protection/face protection.	
Firef	fighters should wear self-contained breathing apparatus with full face peace operated	
posit	tive pressure mode.	
	elease measures	
Personnel pr	ecautions, protective equipment and emergency procedures	
	tilate area until material pick up is complete.	
Wear	r proper protective equipment.	
Environment	al precautions	
Prev	rent spills from entering sewers, watercourses or low areas.	
Methods and	materials for containment and cleaning up	

Methods and 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/sparks/open flames/hot surfaces. - No smoking.



(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

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 pH data is not available. Boiling point or initial boiling point data is not available. Boiling range data is not available. Melting point/Freezing point data is not available. Decomposition temperature data is not available. Flammability (gases, liquids and solids) data is not available. Flash point data is not available. Auto-ignition temperature data is not available. Lower and upper explosion limit/flammability limit data is not available. Vapor pressure data is not available. Relative vapor density (Air=1) data is not available. Density and/or relative density: 1.00g/cm3 Kinematic viscosity data is not available. Solubility:

Solubility in water: Soluble



n-Octanol/water partition coefficient data is not available. No 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 (Potassium nitrate) Decomposes on heating. This increases fire hazard. The substance is a strong oxidant. It reacts with combustible and reducing materials. (ICSC 0184) Conditions to avoid Contact with incompatible materials. Contact with fire source. Incompatible materials Reducing agents, Combustible materials Hazardous decomposition products Nitrogen oxides, Potassium compounds 11. Toxicological Information Information on toxicological effects Acute toxicity Acute toxicity (Oral) [GHS Cat. Japan, base data] (Potassium nitrate) rat LD50=3750mg/kg (ECETOC TR 25, 1988) Irritant properties Skin corrosion/irritation data is not available. Serious eye damage/irritation data is not available. Allergenic and sensitizing effects data is not available. Mutagenic effects data is not available. Carcinogenic effects data is not available. Reproductive toxicity [GHS Cat. Japan, base data] (Potassium nitrate) cat. 2; HSDB, 2005 STOT STOT-single exposure data is not available. STOT-repeated exposure data is not available. Aspiration hazard data is not available.

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12. Ecological Information
Ecotoxicity
Aquatic toxicity
Aquatic acute toxicity component(s) data
[GHS Cat. Japan, base data]
(Potassium nitrate)
Crustacea (Daphnia magna) TLm=490mg/L/48hr (IUCLID, 2000)
Water solubility
(Potassium nitrate)
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35.7 g/100 ml (25°C) (ICSC, 2001) 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 Not applicable to UN No., UN CLASS 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 Transport in bulk according to Annex II of MARPOL73/78 and IBC Code Non Noxious Liquid ; Cat. OS Water

15. Regulatory Information Safety, health and environmental regulations/legislation specific for the substance or mixture US major regulations Chemicals listed in TSCA Inventory Water; Potassium nitrate 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, (6th ed., 2015), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN IMDG Code, 2018 Edition (Incorporating Amendment 39–18) IATA Dangerous Goods Regulations (60th Edition) 2019 Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2019 TLVs and BEIs. (ACGIH) http://monographs.iarc.fr/ENG/Classification/index.php

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 2018).