

0.1W/V% Potassium nitrate solution

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 11/5/2021 SDS code: NB-05 Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name : 0.1W/V% Potassium nitrate solution

SDS code : NB-05

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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Emergency number : 06-6910-7305

2. Hazards identification

GHS classification

Physical hazards Desensitized eplosives classification not possible

Explosives classification not possible

Flammable gases No classification

Aerosol classification not possible

Oxidizing gases No classification
Gases under pressure No classification

Flammable liquids classification not possible

Flammable solids No classification

Self-reactive substances and

mixtures

Pyrophoric liquids classification not possible

classification not possible

classification not possible

Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

Substances and mixtures which in

contact with water emit flammable

gases

vith water emit flammable

Oxidizing liquids classification not possible

Oxidizing solids No classification

Organic peroxides classification not possible Corrosive to metals classification not possible

Health hazards Acute toxicity (oral) No classification

Acute toxicity (dermal) classification not possible classification not possible

Skin sensitization classification not possible Germ cell mutagenicity classification not possible Carcinogenicity classification not possible

Reproductive toxicity No classification
Specific target organ toxicity (single No classification

exposure)

exposure)

No classification

Specific target organ toxicity (repeated exposure)

Aspiration hazard

classification not possible

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Environmental hazards

Hazardous to the aquatic

environment, short-term (acute)

Hazardous to the aquatic environment, long-term (chronic) No classification

No classification

Hazardous to the ozone layer classification not possible

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

	Concentration or Concentration range	Formula	Kanpo number		010 711
Name			CSCL no	ISHL no	CAS RN
Potassium nitrate	About 0.1%	KNO3	(1)-449	Existing Chemical Substance	7757-79-1
Water	About 99.9%	H2O	-	-	7732-18-5

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are mass%, unless otherwise specified.

4. First aid measures

First aid measures

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing.

Get immediate medical advice/attention.

First-aid measures after skin

contact

Remove/Take off immediately all contaminated clothing.

Gently wash with plenty of soap and water.

Get immediate medical advice/attention.

First-aid measures after eye

contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention.

First-aid measures after ingestion

Rinse mouth.

Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Hazardous decomposition products in case of fire

Use proper extinguishing media depending on peripheral fire.

Do not use a heavy water stream.

In case of fire, product may produce irritative or toxic fumes/gases.

Firefighting instructions

If ignited, for the initial fire-fighting, cut off combustion sources, extinguish

fire at a stroke using appropriate fire-extinguishers.

In the case of peripheral fire, quickly remove movable containers to safe

places.

If unable to be moved containers, sprinkle water to containers and

surrounding equipment, etc. to cool.

Protection during firefighting

Wear appropriate fire-resistant clothing including self contained-

compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate personal protective devices to prevent inhalation and General measures

contact with eye, skin, and clothing, and never attempt to work on the lee.

Environmental precautions

Avoid release to the environment. Environmental precautions

Prevent entry to sewers and public waters.

Methods and Equipment for Containment and Cleaning up

Methods for cleaning up Clean up any spills as soon as possible, using an absorbent material to

Collect leaking and spilled liquid in sealable containers as far as possible.

Wash out the spilled area with large amounts of water.

7. Handling and storage

Handling

Technical measures : Work with appropriate personal protective equipment to prevent inhalation

or contact to eyes, skin, and clothing.

Handle with care to prevent leakage, overflowing, or scattering, minimize

generation of mist or vapor, and thoroughly ventilate.

Precautions for safe handling : Do not eat, drink or smoke when using this product.

Thoroughly wash your hands and gargle after handling.

Ensure good ventilation of the work station.

Do not contact, breathe or swallow.

Prevents handling of incompatible

substances or mixtures

Avoid prolonged or repeated exposure.

Storage

Storage conditions : Store in a well-ventilated place, away from direct sunlight. Keep container

tightly closed and keep away from fire and heat sources.

Material used in

packaging/containers

Airtight container.

Technical measures : Comply with applicable regulations.

Storage temperature : Cool and dark place

8. Exposure controls / Personal protection equipment

Appropriate engineering controls : Cover up tightly the generation source at the handling place or install local

exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

Protective equipment

Respiratory protection : Protective mask

Hand protection : Impervious protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)

Skin and body protection : Impervious aprons, Impervious work clothing, Protective long boots

9. Physical and chemical properties

Physical state : Liquid Appearance : Liquid

Color : colorless transparent

Odor : Odorless pH : $5.2 (25^{\circ}C)$

Melting point No data available Freezing point No data available Boiling point No data available Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative density No data available Density 1.00 g/cm³ (20°C) Relative gas density No data available Solubility No data available No data available Partition coefficient n-

octanol/water (Log Pow)

Explosive limits (vol %) : No data available Viscosity, kinematic : No data available Particle characteristics : No data available

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10. Stability and reactivity

Reactivity : No data available

Chemical stability : Stable under normal handling conditions.

Possibility of hazardous reactions : May react with reducing agents.

Conditions to avoid : Sunlight, heat. Contact with reducing agents.

Incompatible materials : Reducing agents Hazardous decomposition : Nitrogen oxides

products

11. Toxicological information

STOT-repeated exposure

The information in this section is based on the "GHS Classification Results" by NITE.

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As a product				
Acute toxicity (oral)	No classification			
Acute toxicity (dermal)	classification not possible			
Acute toxicity (inhalation)	vapors:classification not possible			
	Gases:classification not possible			
Chin compaine limitation	dust, mist:classification not possible			
Skin corrosion/irritation Serious eye damage/irritation	classification not possible classification not possible			
Respiratory sensitization	classification not possible			
Skin sensitization	classification not possible			
Germ cell mutagenicity	classification not possible			
Carcinogenicity	classification not possible			
Reproductive toxicity	No classification			
STOT-single exposure	No classification			
STOT-repeated exposure	No classification			
Aspiration hazard	classification not possible			
Potassium nitrate				
Acute toxicity (oral)	No classification			
Acute toxicity (dermal)	classification not possible			
Acute toxicity (gas)	No classification			
Acute toxicity (vapour)	classification not possible			
Acute toxicity (inhalation:dust/mist)	classification not possible			
Skin corrosion/irritation	classification not possible			
Serious eye damage/irritation	classification not possible			
Respiratory sensitization	classification not possible			
Skin sensitization	classification not possible			
Germ cell mutagenicity	classification not possible			
Carcinogenicity	classification not possible			
Reproductive toxicity	Category 2			
STOT-single exposure	Category 1			
STOT-repeated exposure	Category 1			
Aspiration hazard	classification not possible			
Water				
Acute toxicity (oral)	No classification			
Acute toxicity (dermal)	No classification			
Acute toxicity (gas)	No classification			
	No classification			
Acute toxicity (vapour)				
Acute toxicity (inhalation:dust/mist)	No classification			
Skin corrosion/irritation	No classification			
Serious eye damage/irritation	No classification			
Respiratory sensitization	No classification			
Skin sensitization	No classification			
Germ cell mutagenicity	No classification			
Carcinogenicity	No classification			
Reproductive toxicity	No classification			
STOT-single exposure	No classification			
0707				

No classification

Water	
Aspiration hazard	No classification

12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.				
As a product				
Hazardous to the aquatic environment, short-term (acute)	No classification			
Hazardous to the aquatic environment, long-term (chronic)	No classification			
Persistence and degradability	No data available			
Bioaccumulative potential	No data available			
Mobility in soil	No data available			
Ozone	classification not possible			
Potassium nitrate				
Hazardous to Aquatic Environment - Acute Hazard	No classification			
Hazardous to Aquatic Environment - Chronic Hazard	No classification			
Persistence and degradability	No data available			
Bioaccumulative potential	No data available			
Mobility in soil	No data available			
Hazardous to the ozone layer	classification not possible			
Water				
Hazardous to Aquatic Environment - Acute Hazard	No classification			
Hazardous to Aquatic Environment - Chronic Hazard	No classification			
Persistence and degradability	No data available			
Bioaccumulative potential	No data available			
Mobility in soil	No data available			
Hazardous to the ozone layer	classification not possible			

13. Disposal considerations

Ecology - waste materials With the detail information of the waste, subcontract its disposal to a

waste disposer authorized by a Prefectural Governor.

Contaminated container and Empty the packaging completely prior to disposal.

packaging Empty containers should be taken for recycle, recovery or waste in

accordance with local regulation.

14. Transport information

International Regulations

Transport by sea(IMDG)

UN-No. (IMDG) Not applicable Proper Shipping Name (IMDG) Not applicable Packing group (IMDG) Not applicable Transport hazard class(es) (IMDG) Not applicable

Air transport(IATA)

Not applicable UN-No. (IATA) Proper Shipping Name (IATA) Not applicable Packing group (IATA) Not applicable Transport hazard class(es) (IATA) Not applicable Marine pollutant Not applicable

Regulations in Japan

Regulatory information by sea Not applicable Regulatory information by air Not applicable

Special transport precautions When transporting, load containers so that they do not tip over,

damage, drop or collapse. Make sure there is no leak in containers.

15. Regulatory information

National law

Industrial Safety and Health Law

Japanese Poisonous and

Deleterious Substances Control Law

Not applicableNot applicable

Water Pollution Prevention Law

Hazardous Substances (Act, Art.2, Enforcement Order Art.2, Ministerial Ordinance to Provide for Effluent Standards, Art.1)

Fire Service Law : Not applicable

Foreign Exchange and Foreign

Trade Control Act Waterworks Law Export Trade Control Ordinance appendix 1-16

: Hazardous Substances (Act Article 4 paragraph 2), Standard for

Water Quality (Ministry Order No.101 of 2003)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Not applicable

16. Other information

Data sources : Handbook of 17221 Chemical Products, The Chemical Daily Co, Ltd.

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2016 Emergency Response Guidebook (ERG 2016).

Other information : The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd.

This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.