

10W/V% Potassium thiocyanate solution

Hayashi Pure Chemical Ind.,Ltd.

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SDS code: Q3-15

Version: 06

Safety Data Sheet

1. Chemical product and company identification

Product name	:	10W/V% Potassium thiocyanate solution
SDS code	:	Q3-15
Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirano Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@hp URL : https://www.hpc-j.co.j	oma bc-j	chi, Chuo-ku, Osaka, Osaka, Japan
Emergency number	:	06-6910-7305
Recommended use	:	For research and experimental use only.
Restrictions on use	:	Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc.

2. Hazards identification

GHS classification

Physical hazards	Desensitized explosives	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	classification not possible
	Pyrophoric liquids	classification not possible
	Pyrophoric solids	No classification
	Self-heating substances and mixtures	classification not possible
	Substances and mixtures which in contact with water emit flammable gases	classification not possible
	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
	Acute toxicity (inhalation:gas)	classification not possible
	Acute toxicity (inhalation:vapors)	classification not possible
	Acute toxicity (inhalation:dust/mist)	classification not possible
	Skin corrosion/irritation	classification not possible
	Serious eye damage/eye 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	classification not possible
	Specific target organ toxicity (single exposure)	classification not possible

	Specific target (repeated expo		Category 2 (thyroid gland)
	Aspiration haza	ard	classification not possible
Environmental hazards	Hazardous to t environment, s	the aquatic short-term (acute)	No classification
	Hazardous to t environment, lo	the aquatic ong-term (chronic)	No classification
	Hazardous to t	the ozone layer	classification not possible
Hazard pictograms (GHS JP)	GH508		
Signal word (GHS JP)	: Warning	
Hazard statements (C	GHS JP)	: May cause da repeated expe	amage to organs (thyroid gland) through prolonged or osure (H373)
Precautionary statem	ents (GHS JP)		
Prevention Response Disposal		: Get medical a : Dispose of co	e dust/fume/gas/mist/vapors/spray. (P260) advice/attention if you feel unwell. (P314) ntents/container to hazardous or special waste collection rdance with local, regional, national and/or international 501)

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration or	Formula	Kanpo	CAS RN		
Name	Concentration range	ronnula	CSCL no	ISHL no	ono nii	
Potassium thiocyanate	About 9.6%	KSCN	(1)-152	Existing Chemical Substance	333-20-0	
Water	About 90.4%	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 wt%, 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	:	Use proper extinguishing media depending on peripheral fire.
Unsuitable extinguishing media	:	Do not use a heavy water stream.
Hazardous decomposition products	:	In case of fire, product may produce irritative or toxic fumes/gases.
in case of fire		

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 General measures Before entering, ventilate the area. Do not let unauthorized persons come close to the area. Immediately place the leakage area in isolation, with taking proper distances for all directions. Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee. **Environmental precautions** Environmental precautions Avoid release to the environment. : 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 it. 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 : Avoid prolonged or repeated exposure. substances or mixtures Storage Storage conditions Store locked up. 2 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 Airtight container. : packaging/containers 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, Impervious long boots

9. Physical and chemical properties

•		-
Physical state	:	Liquid
Appearance	:	Liquid
Color	:	colorless transparent
Odor	:	Odorless
рН	:	6.6 (25°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	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	1.05 g/cm3 (20°C)
Relative gas density	:	No data available
Solubility	:	No data available
Partition coefficient n- octanol/water (Log Pow)	:	No data available
Explosive limits (vol %)	:	No data available
Viscosity, kinematic	:	No data available
Particle characteristics	:	No data available

10. Stability and reactivity

Reactivity	:	No data available
Chemical stability	:	Stable under normal handling conditions.
Possibility of hazardous reactions	:	When heated, decomposes producing nitrogen oxides and hydrogen cyanide. Reacts with strong acids and strong oxidizing agents to evolve toxic gas.
Conditions to avoid	:	Sunlight, heat. Contact with strong acids and strong oxidizing agents.
Incompatible materials	:	Strong acids, Strong oxidizing agents
Hazardous decomposition products	:	Nitrogen oxides, Sulfur oxides, Hydrogen cyanide

11. Toxicological information

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

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
	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	classification not possible
STOT-single exposure	classification not possible
STOT-repeated exposure	Category 2
Aspiration hazard	classification not possible
Potassium thiocyanate	
Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	classification not possible
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	classification not possible

Potassium thiocyanate			
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	classification not possible		
STOT-single exposure	classification not possible		
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		
Acute toxicity (vapour)	No classification		
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		
STOT-repeated exposure	No classification		
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 thiocyanate				
Hazardous to Aquatic Environment - Acute Hazard	Category 3			
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			

Water			
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 packaging	:	Empty the packaging completely prior to disposal. 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) Proper Shipping Name (IMDG) Packing group (IMDG) Transport hazard class(es) (IMDG)	 Not applicable Not applicable Not applicable Not applicable Not applicable
Air transport(IATA)	
UN-No. (IATA) Proper Shipping Name (IATA) Packing group (IATA) Transport hazard class(es) (IATA)	 Not applicable Not applicable Not applicable Not applicable Not applicable
Marine pollutant	: Not applicable
Regulations in Japan Regulatory information by sea Regulatory information by air Special transport precautions	 Not applicable Not applicable 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	: 【Date of enforcement: April 1, 2025】 Dangerous or Harmful Substances for Labeling of Chemical Name etc. (Act Art.57 Para.1, Enforcement Order, Art.18) Dangerous or Harmful Substances for Notification of Chemical Name

		Potassium thiocyanate
Japanese Poisonous and Deleterious Substances Control Law	:	Not applicable
Fire Service Law	:	Not applicable
Foreign Exchange and Foreign Trade Control Act	:	Export Trade Control Ordinance appendix 1-16
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	:	Not applicable
16. Other information		
Data sources	:	Handbook of 17524 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE).

etc. on SDS (Act, Art.57-2, Enforcement Order, Art.18-2)

 2020 Emergency Response Guidebook (ERG 2020).

 Other information
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 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.