

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 12/16/2013 Revision date: 12/19/2022 SDS code

SDS code: R3-10 Version: 06

## Safety Data Sheet

### 1. Chemical product and company identification

Product name SDS code	:	Picric acid saturated solution (at 20°C) R3-10
Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirand Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@h URL : https://www.hpc-j.co.	oma oc-j	chi, Chuo-ku, Osaka, Osaka, Japan
Emergency number Recommended use Restrictions on use	: :	06-6910-7305 For research and experimental use only. Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc.

## 2. Hazards identification

### **GHS** classification

	Physical hazards	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
Öxidizing		Oxidizing liquids	classification not possible
		Oxidizing solids	No classification
		Organic peroxides	classification not possible
		Corrosive to metals	Category 1
		Desensitized explosives	classification not possible
	Health hazards	Acute toxicity (oral)	No classification
		Acute toxicity (dermal)	classification not possible
		Acute toxicity (inhalation:gas)	No classification
		Acute toxicity (inhalation:vapors)	No classification
		Acute toxicity (inhalation:dust/mist)	classification not possible
		Skin corrosion/irritation	Category 1
		Serious eye damage/eye irritation	Category 1
		Respiratory sensitization	classification not possible
		Skin sensitization	Category 1
		Germ cell mutagenicity	classification not possible
		Carcinogenicity	classification not possible
		Reproductive toxicity	classification not possible
		Specific target organ toxicity (single exposure)	Category 2 (central nervous system, blood system, liver, kidneys)

Environmental hazards	Specific target organ (repeated exposure) Aspiration hazard Hazardous to the aqu environment, short-te Hazardous to the aqu environment, long-ter Hazardous to the ozo	uatic erm (acute) uatic rm (chronic)	Category 2 (blood system) classification not possible No classification No classification classification not possible
Hazard pictograms (GHS JP)	GHS05 GHS07	7 GH	508
Signal word (GHS JP	Chebb	anger	
Hazard statements (C	GHS JP) : Ma Ca Ma Ma Iiv Ma Ma	ay be corrosive auses severe sk ay cause an alle ay cause damag ver, kidneys) (H3	e to organs (blood system) through prolonged or
Precautionary statem	ents (GHS JP)		
Prevention	Do W Do Co (P W	o not breathe du /ash hands, fore o not eat, drink c ontaminated wo 2272)	nal container. (P234) st/fume/gas/mist/vapors/spray. (P260) arms and face thoroughly after handling. (P264) or smoke when using this product. (P270) rk clothing should not be allowed out of the workplace. loves/protective clothing/eye protection/face protection.
Response	(P IF Ri IF br IF co (P IF (P Im Ge If Ta	2301+P330+P33 ON SKIN (or ha inse skin with wa TINHALED: Rem reathing (P304+I TIN EYES: Rinse potact lenses, if p 2305+P351+P33 exposed or con 2308+P311) nmediately call a et medical advic skin irritation or ake off contamin	air): Take off immediately all contaminated clothing. ater . (P303+P361+P353) nove person to fresh air and keep comfortable for P340) e cautiously with water for several minutes. Remove present and easy to do. Continue rinsing.
Storage	: St	tore locked up. (	
Disposal	: Di pc	ispose of conten	ts/container to hazardous or special waste collection ce with local, regional, national and/or international

### 3. Composition/information on ingredients

Distinction of substance or mixture	:	Mixture
Synonyms	:	2,4,6-Tr Picronitr

Trinitrophenol aqueous solution, Nitroxanthic acid aqueous solution, nitric acid aqueous solution

Name	Concentration or	Formula	Kanpo	CAS RN		
Name	Concentration range	ronnula	CSCL no	ISHL no		
2,4,6-Trinitrophenol	About 1.5%	C6H3N3O7	(3)-823	Existing Chemical Substance	88-89-1	
Water	About 98.5%	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.
contact		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	:	Do NOT induce vomiting.
		Drink plenty of water.
		Rinse mouth.
		Get immediate medical advice/attention.

### 5. Fire fighting measures

Suitable extinguishing media	:	Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.
Unsuitable extinguishing media	:	Do not use a heavy water stream.
Explosion hazard	:	May induce explosion of containers by heating.
Hazardous decomposition products in case of fire	:	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.
		Avoid (reject) fire-fighting water to enter environment.
		Even after extinguishing fire, thoroughly cool containers by using plenty of water.
Protection during firefighting	:	Wear appropriate fire-resistant clothing including self contained- compressed air breathing apparatus.

### 6. Accidental release measures

Personal Precautions, Protective Equ	uipment 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.		
		If possible, neutralize with slaked lime, soda ash, etc. before washing out.		
7. Handling and storage				
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 locked up.		
		Store in a well-ventilated place, away from direct sunlight. Keep container tightly closed and keep away from fire and heat sources.		
		Store in corrosive resistant container with a resistant inner liner.		
Material used in packaging/containers	:	Light shielding airtight container.		
Technical measures	:	Comply with applicable regulations.		
Storage temperature	:	Cool and dark place		

### 8. Exposure controls / Personal protection equipment

Exposure limit values	
2,4,6-Trinitrophenol	
Exposure limits (ACGIH)	TWA 0.1 mg/m3,STEL -
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	: Gas mask for acid gases
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	:	yellow
Odor	:	Odorless
рН	:	1.4 (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 (solid, gas)	:	No data available
Vapor pressure	:	No data available

Relative density	:	No data available
Density	:	1.01 g/cm <sup>3</sup>
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	:	May explode when heated. May decompose explosively due to impact, friction or vibration. Since it is a saturated solution, precipitation may occur.
Possibility of hazardous reactions	:	Reacts with metals (especially copper, lead, mercury, zinc) to generate impact-sensitive compounds. Reacts violently with oxidizing substances and reducing substances to pose a risk of fire and explosion.
Conditions to avoid	:	Sunlight, heating, impact, friction, vibration. Contact with metals, oxidizing agents and reducing agents.
Incompatible materials	:	Metals, Oxidizing agents, Reducing agents
Hazardous decomposition products	:	Nitrogen oxides

# 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:No classification	
	Gases:No classification	
	dust, mist:classification not possible	
Skin corrosion/irritation	Category 1	
Serious eye damage/irritation	Category 1	
Respiratory sensitization	classification not possible	
Skin sensitization Germ cell mutagenicity	Category 1 classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 2	
STOT-repeated exposure	Category 2	
Aspiration hazard	classification not possible	
2,4,6-Trinitrophenol		
Acute toxicity (oral)	Category 3	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	No classification	
Acute toxicity (inhalation:dust/mist)	classification not possible	
Skin corrosion/irritation	classification not possible	
Serious eye damage/irritation	Category 2B	
Respiratory sensitization	classification not possible	
Skin sensitization	Category 1	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 1 Category 3 (Respiratory tract irritation.)	
STOT-repeated exposure	Category 1 Category 2	
Aspiration hazard	classification not possible	
Water		
Acute toxicity (oral)	No classification	

Water		
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	
2,4,6-Trinitrophenol		
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	
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)
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	0005
UN-No. (IMDG)	
Proper Shipping Name (IMDG)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Packing group (IMDG)	
Transport hazard class(es) (IMDG)	: 8
Hazard labels (IMDG)	: 8 : 8
Class (IMDG)	
Special provision (IMDG)	: 223, 274
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
Stowage category (IMDG)	
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.
MFAG-No	: 153
Air transport(IATA)	
UN-No. (IATA)	: 3265
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, organic, n.o.s.
Packing group (IATA)	
Transport hazard class(es) (IATA)	: 8
Hazard labels (IATA)	: 8
Class (IATA)	: 8
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net	: 1L
quantity (IATA)	
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provision (IATA)	: A3, A803
ERG code (IATA)	: 8L
Marine pollutant	: Not applicable
Marine pollutant Regulations in Japan	: Not applicable
•	<ul><li>Not applicable</li><li>Conform to the provisions of the Ship Safety Law.</li></ul>
Regulations in Japan	
<b>Regulations in Japan</b> Regulatory information by sea Regulatory information by air MFAG-No	<ul> <li>Conform to the provisions of the Ship Safety Law.</li> <li>Conform to the provisions of the Civil Aeronautics Law.</li> <li>153</li> </ul>
<b>Regulations in Japan</b> Regulatory information by sea Regulatory information by air	<ul> <li>Conform to the provisions of the Ship Safety Law.</li> <li>Conform to the provisions of the Civil Aeronautics Law.</li> <li>153</li> <li>When transporting, load containers so that they do not tip over,</li> </ul>
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Port Regulation Law	:	Corrosive substances (Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table that defines the type of dangerous goods)
Road Act	:	Restriction for Vehicle Traffic (Enforcement Order Art.19-13, Publication of Japan Highway Pablic Corp.)
Waste Management on Public Cleansing Law	:	Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment Order Art.2-4)
Sewerage Law	:	Substances for Water Quality Standard (Act Art.12-2 Para.2, Enforcement Order Art.9-4)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	:	Not applicable
16. Other information		
Data sources	:	Handbook of 17322 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).
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.