

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 11/19/2021

SDS code: OB-08

08 Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name	
SDS code	

: Artificial urine : OB-08

Company/undertaking : identification HAYASHI PURE CHEMICAL IND.,LTD. Address : 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan Responsible department : Planning Group, Reagent & Chemical Product Department Telephone : 06-6910-7305

E-mail : shiyaku_kikaku@hpc-j.co.jp

URL : https://www.hpc-j.co.jp/

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	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)	classification not possible
	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 organ toxicity (repeated exposure)	classification not possible
	Aspiration hazard	classification not possible

Environmental hazards Hazardous to the aquatic environment, short-term (acute) Hazardous to the aquatic environment, long-term (chronic) Hazardous to the ozone layer

classification not possible

classification not possible

classification not possible

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

	Concentration or		Kanpo	Kanpo number		
Name	Concentration range	Formula	CSCL no	ISHL no	CAS RN	
Urea	About 2.5%	CO(NH2)2	(2)-1732	Existing Chemical Substance	57-13-6	
Sodium chloride	About 0.9%	NaCl	(1)-236	7-(3)-1053	7647-14-5	
Sodium dihydrogenphosphate	About 0.23%	NaH2PO4	(1)-497	Existing Chemical Substance	7558-80-7	
Ammonium chloride	About 0.3%	NH4CI	(1)-218	Existing Chemical Substance	12125-02-9	
Potassium dihydrogen phosphate	About 0.2%	KH2PO4	(1)-452	Existing Chemical Substance	7778-77-0	
Creatinine	About 0.2%	C4H7N3O	(9)-408	Existing Chemical Substance	60-27-5	
Sodium sulfite	About 0.1%	Na2SO3	(1)-502	Existing Chemical Substance	7757-83-7	
Water	About 95.57%	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	:	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	:	Rinse mouth.
		Get immediate medical advice/attention.
5. Fire fighting measures		

Suitable extinguishing media Unsuitable extinguishing media	:	Use proper extinguishing media depending on peripheral fire. Do not use a heavy water stream.
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.

Protection during firefighting :	Wear appropriate fire-resistant clothing including self contained- compressed air breathing apparatus.
6. Accidental release measu	ires
Personal Precautions, Protective Equ	ipment and Emergency Procedures
General measures :	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 Contain	nent 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	
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

Exposure limit values	
Ammonium chloride	
Exposure limits (ACGIH)	TWA 10 mg/m3,STEL 20 mg/m3
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

:	Liquid
:	Liquid
:	colorless transparent
:	Odorless
:	5.9 (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	:	1.02 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	:	No data available
Conditions to avoid	:	Sunlight, Heat
Incompatible materials	:	No data available
Hazardous decomposition products	:	Nitrogen oxides, Sulfur oxides, Chlorine and its compounds

11. Toxicological information

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

As a product			
Acute toxicity (oral)	classification not possible		
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	classification not possible		
Aspiration hazard	classification not possible		
Urea			
Acute toxicity (oral)	classification not possible		
Acute toxicity (dermal)	classification not possible		
Acute toxicity (gas)	classification not possible		
Acute toxicity (vapour)	No classification		
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		

Urea	
STOT-single exposure	classification not possible
STOT-repeated exposure	classification not possible
Aspiration hazard	classification not possible
Sodium chloride	
Acute toxicity (oral)	classification not possible
Acute toxicity (dermal)	classification not possible
Acute toxicity (dermal)	classification not possible
Acute toxicity (yapour)	No classification
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	classification not possible
Aspiration hazard	classification not possible
Sodium dihydrogenphosphate	
Acute toxicity (oral)	No data available
Acute toxicity (dermal)	No data available
Acute toxicity (gas)	No data available No data available
Acute toxicity (vapour) Acute toxicity (inhalation:dust/mist)	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	
	No data available
Ammonium chloride	
Acute toxicity (oral)	Category 4
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	No classification
Serious eye damage/irritation Respiratory sensitization	Category 2B classification not possible
Skin sensitization	No classification
Germ cell mutagenicity	No classification
Carcinogenicity	classification not possible
Reproductive toxicity	classification not possible
STOT-single exposure	Category 2
STOT-repeated exposure	Category 1
Aspiration hazard	classification not possible
Potassium dihydrogen phosphate	
Acute toxicity (oral)	classification not possible

Potassium dihydrogen phosphate					
Acute toxicity (dermal)	classification not possible				
Acute toxicity (gas)	classification not possible				
Acute toxicity (vapour)	No classification				
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	classification not possible				
Aspiration hazard	classification not possible				
Creatinine					
Acute toxicity (oral)	No data available				
Acute toxicity (dermal)	No data available				
Acute toxicity (dermal)	No data available				
Acute toxicity (gas)	No data available				
Acute toxicity (inhalation:dust/mist)	No data available				
Skin corrosion/irritation	No data available				
Serious eye damage/irritation	No data available				
Respiratory sensitization	No data available				
Skin sensitization	No data available				
Germ cell mutagenicity	No data available				
Carcinogenicity	No data available				
Reproductive toxicity	No data available				
STOT-single exposure	No data available				
STOT-repeated exposure	No data available				
Aspiration hazard	No data available				
Sodium sulfite					
Acute toxicity (oral)	classification not possible				
Acute toxicity (dermal)	classification not possible				
Acute toxicity (derival)	classification not possible				
Acute toxicity (gas)	No classification				
Acute toxicity (vapour)	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	classification not possible				
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					

Water					
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.

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)	classification not possible		
Hazardous to the aquatic environment, long-term (chronic)	classification not possible		
Persistence and degradability	No data available		
Bioaccumulative potential	No data available		
Mobility in soil	No data available		
Ozone	classification not possible		
Urea			
Hazardous to Aquatic Environment - Acute Hazard	classification not possible		
Hazardous to Aquatic Environment - Chronic Hazard	classification not possible		
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		
Sodium chloride			
Hazardous to Aquatic Environment -	classification not possible		
Acute Hazard			
Hazardous to Aquatic Environment - Chronic Hazard	classification not possible		
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		
Sodium dihydrogenphosphate			
Hazardous to Aquatic Environment - Acute Hazard	No data available		
Hazardous to Aquatic Environment - Chronic Hazard	No data available		
Persistence and degradability	No data available		
Bioaccumulative potential	No data available		
Mobility in soil	No data available		
Hazardous to the ozone layer	No data available		
Ammonium chloride	•		
Hazardous to Aquatic Environment - Acute Hazard	No data available		
Hazardous to Aquatic Environment - Chronic Hazard	No data available		
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		
	· ·		

Potassium dihydrogen phosphate	
Hazardous to Aquatic Environment - Acute Hazard	classification not possible
Hazardous to Aquatic Environment - Chronic Hazard	classification not possible
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
Creatinine	
Hazardous to Aquatic Environment - Acute Hazard	No data available
Hazardous to Aquatic Environment - Chronic Hazard	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	No data available
Sodium sulfite	
Sodium sulfite Hazardous to Aquatic Environment - Acute Hazard	classification not possible
Hazardous to Aquatic Environment -	classification not possible classification not possible
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment -	
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard	classification not possible
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability	classification not possible No data available
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential	classification not possible No data available No data available
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential Mobility in soil	classification not possible No data available No data available No data available No data available
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential Mobility in soil Hazardous to the ozone layer	classification not possible No data available No data available No data available No data available
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential Mobility in soil Hazardous to the ozone layer Water Hazardous to Aquatic Environment -	classification not possible No data available No data available No data available Image: No data available
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential Mobility in soil Hazardous to the ozone layer Water Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment -	classification not possible No data available No data available No data available classification not possible
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential Mobility in soil Hazardous to the ozone layer Water Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard	classification not possible No data available No data available No data available classification not possible No classification No classification
Hazardous to Aquatic Environment - Acute HazardHazardous to Aquatic Environment - Chronic HazardPersistence and degradabilityBioaccumulative potentialMobility in soilHazardous to the ozone layerWaterHazardous to Aquatic Environment - Acute HazardHazardous to Aquatic Environment - Chronic HazardPersistence and degradability	classification not possible No data available No data available No data available classification not possible No classification No classification No data available No classification No classification No data available

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)	:	Not applicable
Proper Shipping Name (IMDG)	:	Not applicable
Packing group (IMDG)	:	Not applicable
Transport hazard class(es) (IMDG)	:	Not applicable
Air transport(IATA)		
UN-No. (IATA)	:	Not applicable
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
Regulatory information by air
Special transport precautions

: Not applicable

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.

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

: Export Trade Control Ordinance appendix 1-16

Water Quality (Ministry Order No.101 of 2003)

15. Regulatory information

0		
National law		
Industrial Safety and Health Law	:	Not applicable
Japanese Poisonous and Deleterious Substances Control Law	:	Not 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	

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

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.