

Hayashi Pure Chemical Ind.,Ltd. Date of issue: 4/2/2014

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SDS code: M3-19 Version: 05

### Safety Data Sheet

### 1. Chemical product and company identification

Product name SDS code	: Turbidity standard solution 1000 : M3-19
Company/undertaking identification HAYASHI PURE CHEMIC Address : 3-2-12 Uchihii Telephone : 06-6910-73 E-mail : shiyaku_kikaku URL : https://www.hpc-j.	ranomachi, Chuo-ku, Osaka, Osaka, Japan 05 @hpc-j.co.jp
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	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
	Desensitized explosives	classification not possible
Health hazards	Acute toxicity (oral)	No classification
	Acute toxicity (dermal)	No classification
	Acute toxicity (inhalation:gas)	No classification
	Acute toxicity (inhalation:vapors)	No classification
	Acute toxicity (inhalation:dust/mist)	classification not possible
	Skin corrosion/irritation	classification not possible
	Serious eye damage/eye irritation	No classification
	Respiratory sensitization	classification not possible
	Skin sensitization	No classification
	Germ cell mutagenicity	No classification
	Carcinogenicity	Category 1A
	Reproductive toxicity	classification not possible
	Specific target organ toxicity (single exposure)	No classification

	Specific target o (repeated expos	-	•	No classification
Aspiration ha		rd		classification not possible
Environmental hazards	Hazardous to the environment, she		•	classification not possible
	Hazardous to the environment, lor			classification not possible
	Hazardous to the	the ozone layer		classification not possible
Hazard pictograms (GHS JP)				
	GHS08			
Signal word (GHS JP)	:		Danger	
Hazard statements (G	HS JP) :		May cause cance	r (H350)
Precautionary stateme	ents (GHS JP)			
Prevention	:	:	Do not handle unt (P202)	tructions before use. (P201) il all safety precautions have been read and understood. loves/protective clothing/eye protection/face protection.
Response	:		IF exposed or cor	cerned: Get medical advice/attention. (P308+P313)
Storage	:		Store locked up. (	P405)
Disposal	:	:		nts/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

Name	Concentration or	Concentration or Formula		Kanpo number		
Name	Concentration range	ronnula	CSCL no	ISHL no	CAS RN	
Kaolin	About 0.1%	Al2O3 • 2SiO2 • 2H2O	Excluded (element)	-	1332-58-7	
Formaldehyde	About 0.4%	НСНО	(2)-482	2-(8)-379	50-00-0	
Methanol	About 0.008%	СНЗОН	(2)-201	Existing Chemical Substance	67-56-1	
Water	About 99.492%	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 Remove/Take off immediately all contaminated clothing. : contact Gently wash with plenty of soap and water. Get immediate medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove First-aid measures after eye : contact lenses, if present and easy to do. Continue rinsing. contact Get immediate medical advice/attention. First-aid measures after ingestion : Do NOT induce vomiting. 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	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	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 Contain	ment 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 : 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.
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	
Kaolin	
Exposure limits (JSOH)	[Occupational exposure limits for dusts](Class 1) Respirable dust 0.5mg/m3 Total dust 2mg/m3
Exposure limits (ACGIH)	TWA 1 mg/m3(R),STEL -;TWA 2 mg/m3 (E,R),STEL -
Formaldehyde	
Japan administration level	0.1ppm
Exposure limits (JSOH)	0.1ppm(0.12mg/m3) [Ceiling]0.2ppm(0.24mg/m3)
Exposure limits (ACGIH)	TWA 0.1 ppm,STEL 0.3 ppm
Methanol	
Japan administration level	200ppm
Exposure limits (JSOH)	200ppm(260mg/m3)(skin)
Exposure limits (ACGIH)	TWA 200 ppm,STEL 250 ppm (Skin)
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 organic 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, Impervious long boots
Physical state Appearance	: Liquid : Liquid
Appearance	: Liquid
Color	: milky white
Odor	: characteristic odor
рН	: 6.8 (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	: 1.00 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	: May react with strong oxidizing agents, strong acids, strong bases and all

Onernical stability	•	Stable under normal nandling conditions.
Possibility of hazardous reactions	:	May react with strong oxidizing agents, strong acids, strong bases and alkali metals.
Conditions to avoid	:	Sunlight, heat. Contact with strong oxidizing agents, strong acids, strong bases and alkali metals.
Incompatible materials	:	Strong oxidizing agents, Strong acids, Strong bases, Alkali metals

Hazardous decomposition : No data available products

### 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)	No classification
Acute toxicity (inhalation)	vapors:No classification Gases:No classification
	dust, mist:classification not possible
Skin corrosion/irritation	classification not possible
Serious eye damage/irritation	No classification
Respiratory sensitization	classification not possible
Skin sensitization	No classification
Germ cell mutagenicity Carcinogenicity	No classification Category 1A
Reproductive toxicity	classification not possible
STOT-single exposure	No classification
STOT-repeated exposure	No classification
Aspiration hazard	classification not possible
Kaolin	
Acute toxicity (oral)	No data available
Acute toxicity (dermal)	No data available
Acute toxicity (gas)	No data available
Acute toxicity (vapour)	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
Formaldehyde	
Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	Category 3
Acute toxicity (gas)	Category 2
Acute toxicity (vapour)	No classification
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 2
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1A
Reproductive toxicity	classification not possible
STOT-single exposure	Category 1
STOT-repeated exposure	Category 1
Aspiration hazard	No classification
-	
Methanol	
Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	No classification

Methanol	
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	classification not possible
Serious eye damage/irritation	Category 2
Respiratory sensitization	classification not possible
Skin sensitization	No classification
Germ cell mutagenicity	No classification
Carcinogenicity	classification not possible
Reproductive toxicity	Category 1B
STOT-single exposure	Category 1 Category 3 (Narcosis)
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)	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
Kaolin	
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
Formaldehyde	
Hazardous to Aquatic Environment - Acute Hazard	Category 2
Hazardous to Aquatic Environment - Chronic Hazard	Category 3
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available

Formaldehyde			
Hazardous to the ozone layer	classification not possible		
Methanol			
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 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

# Proper Shipping Name (IATA)

Marina nallutant
Transport hazard class(es) (IATA)
Packing group (IATA)

#### Marine pollutant

#### **Regulations in Japan**

Regulatory information by sea
Regulatory information by air
<b>Special transport precautions</b>

Not applicable :

Not applicable

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.

### 15. Regulatory information

#### National law

Chemical Substances Control Law	:	Priority Assessment Chemical Substances (Law Article 2, Para.5)
Industrial Safety and Health Law	:	Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9) Formaldehyde (Ordinance number : 548)
Japanese Poisonous and Deleterious Substances Control Law	:	Not applicable

Water Pollution Prevention Law	:	Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3)
Fire Service Law	:	Not applicable
Air Pollution Control Law	:	Specified substances (Article 17, Paragraph 1 of the Law, Article 10 of the Enforcement Ordinance) Hazardous Air Pollutants, Priority Substances (Central Environment Council Report No. 9) Hazardous Air Pollutants, Substances on Voluntary Management Guideline (Environment Agency Notice No.205 of Oct 18, 1996, Environment Agency Notice No.2210181 of Oct 18, 2022) Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice to Prefectures)
Law Relating to Prevention of Marine Pollution and Maritime Disasters	:	Noxious Liquid Substances - Category Z (Law Art.3(3), Enforcement Order, Art.1-2, Attached Table No.1 Item 3)
Foreign Exchange and Foreign Trade Control Act	:	Export Trade Control Ordinance appendix 1-16
Waterworks Law	:	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)	:	Class 1 Designated Chemical Substances, Specified Class 1 Designated Chemical Substances (Act Art.2 para.2, Enforcement Order Art.1 Appended Table No.1, Enforcement Order Art.4) Formaldehyde (0.4%)
Labor Standards Act	:	Chemical Substances Causing Occupational Illnesses (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Nortification No.36 of 1978)
16. Other information		
Data sources	:	Handbook of 17423 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 used used and give the bighest priority to thom. 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.