



Date of issue: 25/07/2016  
Date of revision: 18/11/2020

## Safety Data Sheet

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### 1. Identification of the substance/mixture and of the company/undertaking

#### Product identifier:

Product name: Turbidity standard solution(100)

SDS No. : J4288E-2

#### Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN

Division: Safety Management Dept. of Chemicals

Telephone number: +81-6-6946-8061

FAX: +81-6-6946-1607

e-mail address: kagakuhinanzenkanri@kishida.co.jp

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### 2. Hazards identification

#### GHS classification and label elements of the product

#### Classification of the substance or mixture

(Note) GHS classification without description: Not classified/Classification not possible

#### Label elements

No GHS label element

No Signal word

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### 3. Composition/information on ingredients

#### Mixture/Substance selection:

##### Mixture

Ingredient name:Kaolin

Content (%):0.010

Chemicals No, Japan:1-20;1-26

CAS No.:1332-58-7

ECNO:310-194-1

Ingredient name:Formaldehyde

Content (%):0.041

Chemical formula:CH<sub>2</sub>O

Chemicals No, Japan:2-482

CAS No.:50-00-0

MW:30.03

ECNO:200-001-8

Ingredient name:Methanol

Content (%):0.011

Chemical formula:CH<sub>4</sub>O

Chemicals No, Japan:2-201

CAS No.:67-56-1

MW:32.04

ECNO:200-659-6

Ingredient name:Water



Content (%):99

Chemical formula:H<sub>2</sub>O

CAS No.:7732-18-5

MW:18.02

ECNO:231-791-2

Note : The figures shown above are not the specifications of the product.

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#### 4. First-aid measures

##### Descriptions of first-aid measures

###### IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

###### IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

###### IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

###### IF SWALLOWED

Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

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#### 5. Fire-fighting measures

##### Extinguishing media

###### Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media data is not available.

##### Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

##### Advice for firefighters

###### Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

###### Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

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#### 6. Accidental release measures

##### Personnel precautions, protective equipment and emergency procedures

Ventilate area until material pick up is complete.

Wear proper protective equipment.

##### Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

##### Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

##### Preventive measures for secondary accident

Collect spillage.



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## 7. Handling and storage

### Precautions for safe handling

#### Preventive measures

(Protective measures against fire and explosion)

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Wear protective gloves, protective clothing or face protection.

When using do not eat, drink or smoke.

#### Any incompatibilities

See "10.Stability and Reactivity"

### Storage

#### Conditions for safe storage

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

#### Container and packaging materials for safe handling

Glass

Polyethylene

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## 8. Exposure controls/personal protection

### Control parameters

#### Adopted value

(Kaolin)

ACGIH(1990) TWA: 2mg/m<sup>3</sup>(E,R) (Pneumoconiosis)

(Formaldehyde)

ACGIH(2016) TWA: 0.1ppm;

STEL: 0.3ppm (URT & eye irr; URT cancer)

(Methanol)

ACGIH(2008) TWA: 200ppm;

STEL: 250ppm (Headache; eye dam; dizziness; nausea)

#### Notation

(Methanol)

Skin

(Formaldehyde)

DSEN; RSEN

#### OSHA-PEL

(Kaolin)

TWA: 15mg/m<sup>3</sup> (Total dust)

TWA: 5mg/m<sup>3</sup> (Respirable fraction)

(Methanol)

TWA: 200ppm, 260mg/m<sup>3</sup>

### Exposure controls

#### Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

#### Individual protection measures

##### Respiratory protection



Wear respiratory protection.  
Hand protection  
Wear protective gloves.  
Eye protection  
Wear eye/face protection.

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## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical state: Liquid  
Color: Milky white  
Odor: None  
Melting point/Freezing point data is not available.  
Boiling point or initial boiling point data is not available.  
Boiling range data is not available.  
Flammability (gases, liquids and solids) data is not available.  
Lower and upper explosion limit/flammability limit data is not available.  
Flash point data is not available.  
Auto-ignition temperature data is not available.  
Decomposition temperature data is not available.  
pH data is not available.  
Kinematic viscosity data is not available.  
Solubility:  
Solubility in water: Soluble  
n-Octanol/water partition coefficient data is not available.  
Vapor pressure data is not available.  
Density and/or relative density: 1.0  
Relative vapor density (Air=1) data is not available.  
No Particle characteristics data is not available.

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## 10. Stability and Reactivity

### Reactivity

Not available.

### Chemical stability

Stable under normal storage/handling conditions.

### Possibility of hazardous reactions

(Formaldehyde)

The substance may polymerize if it is not stabilized. Reacts with acids and strong oxidants. (ICSC 0695)

(Methanol)

The vapour mixes well with air, explosive mixtures are easily formed.

Reacts violently with strong oxidants, acids and reducing agents. This generates fire and explosion hazard. (ICSC 0057)

### Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

### Incompatible materials

Acids, Strong oxidizing agents, Reducing agents

### Hazardous decomposition products

Carbon oxides

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## 11. Toxicological Information

### Information on toxicological effects

#### Acute toxicity

##### Acute toxicity (Oral)

[GHS Cat. Japan, base data]

(Formaldehyde)

rat LD50=600–700mg/kg, 800mg/kg (SIDS, 2003)

(Methanol)

human LD50=ca. 1400mg/kg (DFGOT vol.16, 2001)

##### Acute toxicity (Dermal)

[GHS Cat. Japan, base data]

(Formaldehyde)

rabbit LD50=270mg/kg (HSDB, Access on Jun. 2017)

(Methanol)

rabbit LD50=15800mg/kg (DFGOT vol.16, 2001)

##### Acute toxicity (Inhalation)

[GHS Cat. Japan, base data]

(Formaldehyde)

gas: rat LC50=480ppm/4hr (SIDS, 2003)

(Methanol)

vapor: rat LC50>31500ppm/4hr (DFGOT vol.16, 2001)

#### Irritant properties

##### Skin corrosion/irritation

[GHS Cat. Japan, base data]

(Formaldehyde)

human skin irritation (ATSDR Addendum, 2010); EU CLP Skin Corr. 1B (ECHA CL Invt., Access on Jun. 2017)

##### Serious eye damage/irritation

[GHS Cat. Japan, base data]

(Formaldehyde)

human/rabbit eyes irritation (EHC 89, 1989)

(Methanol)

rabbit category 2 : Draize test (EHC 196, 1997)

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

#### Carcinogenicity

(Formaldehyde)

IARC-Gr.1 : Carcinogenic to humans

(Formaldehyde)

ACGIH-A1(2016) : Confirmed Human Carcinogen

(Kaolin)

ACGIH-A4(1990) : Not Classifiable as a Human Carcinogen

(Formaldehyde)

EU-Category 1B; Substances presumed to have carcinogenic potential for humans

Reproductive toxicity data is not available.

#### STOT

##### STOT-single exposure

[cat.3 (drow./dizz.)]

[GHS Cat. Japan, base data]

(Methanol)

narcotic effect (PATY 5th, 2001)

STOT-repeated exposure data is not available.

Aspiration hazard data is not available.



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## 12. Ecological Information

### Ecotoxicity

#### Aquatic toxicity

##### Hazardous to the aquatic environment (Acute)

[GHS Cat. Japan, base data]

(Formaldehyde)

Crustacea (Daphnia magna) LC50=2mg/L/24hr (WHO EHC, 1989)

(Methanol)

Crustacea (Brine shrimp) LC50=900.73mg/L/24hr (EHC196, 1998)

##### Hazardous to the aquatic environment (Long-term)

[GHS Cat. Japan, base data]

(Formaldehyde)

Crustacea (Ceriodaphnia reticulata) NOEC (survival rate)=1.0mg/L/7days (NICNAS PEC, 2006)

#### Water solubility

(Kaolin)

none (ICSC, 1999)

(Formaldehyde)

Miscible (ICSC, 2012)

(Methanol)

100 g/100 ml (PHYSPROP\_DB, 2009)

#### Persistence and degradability

(Formaldehyde)

Degrade rapidly (BOD\_Degradation:91% (CSCL DB, 1989))

#### Bioaccumulative potential

(Formaldehyde)

log Pow=0.35 (PHYSPROP DB, 2005)

(Methanol)

log Pow=-0.82/-0.66 (ICSC, 2000)

#### Mobility in soil

Mobility in soil data is not available.

#### Other adverse effects

Ozone depleting chemical data is not available.

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## 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

#### Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

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## 14. Transport Information

Not applicable to UN No., UN CLASS

Not applicable to IMDG Code

Not applicable to IATA Dangerous Goods Regulations

#### Environmental hazards

MARPOL Annex III – Prevention of pollution by harmful substances

Marine pollutants (yes/no) : no

Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

Noxious Liquid ; Cat. Y

Formaldehyde; Methanol

Non Noxious Liquid ; Cat. OS

Kaolin; Water



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**15. Regulatory Information**

Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal Regulations

Chemicals listed in TSCA Inventory

Formaldehyde; Methanol; Kaolin; Water

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

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**16. Other information**

The product is not applicable to GHS classifications.

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (7th revised edition, 2017), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN

IMDG Code, 2018 Edition (Incorporating Amendment 39-18)

IATA Dangerous Goods Regulations (61th Edition) 2020

Classification, labelling and packaging of substances and mixtures (Table 3 ECNO6182012)

2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2020 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2019).