



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 01-Feb-2023 Revision Number 2.03

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	1,3-Dimethylurea	
Product Code	043-19502,047-19505	
Manufacturer	FUJIFILM Wako Pure Chemical Corpo 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964 FUJIFILM Wako Pure Chemical Corpo	
Supplier	1-2 Doshomachi 3-Chome, Chuo-ku, ( Phone: +81-6-6203-3741 Fax: +81-6-6203-2029	Dsaka 540-8605, Japan
Emergency telephone number Recommended uses and restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only	
	Section 2: HAZARDS IDENT	IFICATION
Category 2 kidneys Pictograms		
Signal word	Warning	
Hazard statements H373 - May cause damage to th	e following organs through prolonged or	repeated exposure: kidneys
Precautionary statements-(Preve • Do not breathe dust/fume/gas/ Precautionary statements-(Response)	mist/vapors/spray	
Get medical advice/attention if     Precautionary statements-(Storag         • Not applicable	you feel unwell	
Precautionary statements-(Dispo	<b>sal)</b> to an approved waste disposal plant	
Others Other hazards	Not available	

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture

Substance

#### Formula

CH3NHCONHCH3

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
1,3-Dimethylurea	98.0	88.11	(2)-1734	公表	96-31-1
Note on ISHL No.: * in the table means announced chemical substances.					

Impurities and/or Additives: Not applicable

# Section 4: FIRST AID MEASURES

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

## Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

#### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

#### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

#### **Protection of first-aiders**

Use personal protective equipment as required.

## Section 5: FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

## No information available

## Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### Special extinguishing method

#### No information available

## Special protective actions for

#### fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

### Section 6: ACCIDENTAL RELEASE MEASURES

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

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

#### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

## Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

## Recoverly, neutralization

No information available

#### Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

## Section 7: HANDLING AND STORAGE

Handling Technical measures Avoid contact with strong oxidizi	ng agents. Use with local exhaust ventilation.
Precautions	
scattering. Not to generate stear then gargle In places other than	s, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and n and dust in vain. Seal the container after use. After handling, wash hands and face, and those specified, should not be smoking or eating and drinking Should not be brought ent and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the
Safety handling precautions	
	clothing. Use personal protective equipment as required.
Storage	
Safe storage conditions	
Storage conditions	Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.
Safe packaging material Incompatible substances	Glass Strong oxidizing agents

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure	limits
----------	--------

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Personal protective equipment Respiratory protection Hand protection Eye protection Skin and body protection General hygiene considerations

Dust mask Protection gloves protective eyeglasses or chemical safety goggles Long-sleeved work clothes

Handle in accordance with good industrial hygiene and safety practice.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color	White - nearly white
Appearance	crystals - crystalline powder no data available
Odor	
Melting point/freezing point	102-108 °C
Boiling point, initial boiling point and boiling range	268-270 °C
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or	
explosive limits	
Upper:	no data available
Lower:	no data available
Flash point	154 °C
Auto-ignition temperature:	400 °C
Decomposition temperature:	no data available
Hq	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	water and Ethanol : free soluble .
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	no data available
opeonie oravity / relative deligity	

Vapour density Particle characteristics no data available no data available

# Section 10: STABILITY AND REACTIVITY

Stability

 Reactivity
 no data available

 Chemical stability
 May be altered by light.

 Hazardous reactions
 None under normal processing

 Conditions to avoid
 Extremes of temperature and direct sunlight

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)

## Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
1,3-Dimethylurea	4000 mg/kg (Rat)	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
1,3-Dimethylurea	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
1,3-Dimethylurea			Based on the NITE GHS
	classification results.	classification results.	classification results.

#### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
1,3-Dimethylurea	Based on the NITE GHS classification results.
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
1,3-Dimethylurea	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
1,3-Dimethylurea	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
1,3-Dimethylurea	Based on the NITE GHS classification results.
Carcinogenicity	· · · · · ·
Chemical Name	Carcinogenicity source information
1.3-Dimethylurea	Based on the NITE GHS classification results.

#### **Reproductive toxicity**

Reproductive toxicity source information	
Based on the NITE GHS classification results.	
STOT -single exposure- source information	
Based on the NITE GHS classification results.	
STOT -repeated exposure- source information	
Based on the NITE GHS classification results.	

Aspiration hazard

Chemical Name	Aspiration Hazard source information
1,3-Dimethylurea	Based on the NITE GHS classification results.

# Section 12: ECOLOGICAL INFORMATION

#### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
1,3-Dimethylurea	ErC50:Scenedesmus	LC50:Poecilia reticulata	ErC50:Daphnia magna
	subspicatus >500 mg/L 72h	2523 mg/L 96 h	ErC50 > 500 mg/L 24h

#### Other data

othiol data		
Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
1,3-Dimethylurea	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Persistence and degradability	
Bioaccumulative potential	
Mobility in soil	
Hazard to the ozone layer	
Mobility	

No information available No information available No information available No information available

## Section 13: DISPOSAL CONSIDERATIONS

#### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated container and contaminated packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

## Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	Not regulated - Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated - Not applicable No information available
IATA UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Environmentally Hazardous Substance	Not regulated - Not applicable

## Section 15: REGULATORY INFORMATION

International Inventories	
EINECS/ELINCS	Listed
TSCA	Listed
Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	tNot applicable
Regulations for the carriage	Not applicable
and storage of dangerous	
goods in ship	
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	Not applicable
Register Law	
(~2023.3.31)	
Pollutant Release and Transfer	Not applicable
Register Law	
(2023/4/1~) Formant Tanada, Caratarah Ondari	
Export Trade Control Order	Not applicable

## Section 16: OTHER INFORMATION

 

 Key literature references and sources for data etc.
 NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc

#### Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z7252(2019). \*JIS: Japanese Industrial Standards

#### End of Safety Data Sheet