



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 09-Feb-2023 Revision Number 5.04

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	N,N'-Methylenebis(acrylamide)	
Product Code	130-06031,138-06032	

Manufacturer FUJIFILM Wako Pure Chemical Corporation

> 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741

Supplier FUJIFILM Wako Pure Chemical Corporation

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**Emergency telephone number** 

+81-6-6203-3741 / +81-3-3270-8571 For research use only

Recommended uses and restrictions on use

## **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification Classification of the substance or mixture Acute toxicity - Oral Serious eye damage/eye irritation Germ cell mutagenicity

Category 4 Category 2B Category 2





Signal word

Warning

## **Hazard statements**

Central nervous system H302 - Harmful if swallowed

H341 - Suspected of causing genetic defects

## **Precautionary statements-(Prevention)**

- Obtain special instructions before use
- · Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product

#### **Precautionary statements-(Response)**

- IF exposed or concerned: 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: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

#### Precautionary statements-(Storage)

Store locked up

#### Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

**Others** 

Other hazards Not available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula (CH2:CHCONH)2CH2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
N,N'-Methylenebis(acryl	99.0	154.17	(2)-1020	*	110-26-9
amide)					

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.

#### Eve 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 oxidizing agents. Use with local exhaust ventilation.

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

## Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

#### Storage

Safe storage conditions

Storage conditions Keep container protect from light tightly closed. Store in a cool (2-10 °C) place.

Safe packaging material

Incompatible substances 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 Dust mask Hand protection Protection gloves

protective eyeglasses or chemical safety goggles Eye protection

Long-sleeved work clothes Skin and body protection

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color white

**Appearance** crystals - crystalline powder

Odor no data available 185 °C

Melting point/freezing point

Boiling point, initial boiling point and boiling range no data available no data available **Flammability Evaporation rate:** no data available Flammability (solid, gas): no data available

Upper/lower flammability or

explosive limits

Upper:
Lower:
no data available
pH
5.0 - 7.0 (10g/L, 25 °C)
Viscosity (coefficient of viscosity)
no data available

Dynamic viscosity

Solubilities

no data available
no data available
water, Ethanol: sparingly soluble.

n-Octanol/water partition coefficient:(log Pow)

Vapour pressure

Specific Gravity / Relative density

no data available
1.235 g/cm3 (20°C)

Vapour density

Vapour density no data available
Particle characteristics 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
N,N'-Methylenebis(acrylamide)	390 mg/kg (rat)	N/A	N/A

Skin irritation/corrosionno data availableSerious eye damage/ irritationno data availableRespiratory or skin sensitizationno data available

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
N,N'-Methylenebis(acrylamide)	Reverse mutation assay in S.typhimurium and E.coli; Weak positive Chromosomal aberration test in cultured mammalian cells: PositiveMicronucleus test (in vivo): Positive

Carcinogenicity no data available

Reproductive toxicity

Chemical Name	Reproductive toxicity source information		
, in the angles is a second as	orl-mus TDLo: 50 mg/kg(1D male) orl-mus TDLo: 360 mg/kg(6-17D preg) orl-mus TDLo: 3208 mg/kg(16D male) ipr-mus TDLo: 225 mg/kg(1D male)		

STOT-single exposureno data availableSTOT-repeated exposureno data availableAspiration hazardno data available

# **Section 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
N,N'-Methylenebis(acrylamide)	N/A	N/A LC50 96hr	
		179-312mg/L(Oryzias latipes)	

Other data no data available

Persistence and degradability No information available No information available Bioaccumulative potential Mobility in soil No information available Hazard to the ozone layer 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 Not regulated

**UN** number Proper shipping name:

**UN classfication** Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IMDG** Not regulated

**UN** number

Proper shipping name: **UN classfication** Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** Not regulated **UN** number

Proper shipping name: **UN classfication** 

Subsidiary hazard class

Packing group

**Environmentally Hazardous** Not applicable

Substance

## **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 Mutagens - Existing Chemicals

Regulations for the carriage

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

Register Law (2023/4/1~)

Export Trade Control Order

Not applicable

Not applicable

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**