

**Section 1: PRODUCT AND COMPANY IDENTIFICATION**

<b>Product name</b>	Mefenacet Reference Material
<b>Product code</b>	130-16921
<b>CAS No</b>	73250-68-7
<b>Formula</b>	C <sub>16</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> S
<b>Manufacturer</b>	Wako Pure Chemical Industries, Ltd 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81 (0)6-6203-3741 Fax: +81 (0)6-6201-5964
<b>Supplier</b>	Wako Pure Chemical Industries, Ltd 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81 (0)6-6203-3741 Fax: +81 (0)6-6201-5964
<b>Emergency telephone number</b>	+81-6-6203-3741 / +81-3-3270-8571
<b>Recommended uses and restrictions on use</b>	For research purposes

**Section 2: HAZARDS IDENTIFICATION****GHS classification****Classification of the substance or mixture****Reproductive Toxicity**

Category 2

**Specific target organ toxicity (repeated exposure)**

Category 2

Category 2 Blood system, kidneys

**aquatic environment (acute hazard)**

Category 1

**aquatic environment (long-term hazard)**

Category 1

**Pictograms****Signal word**

Warning

**Hazard statements**

H361 - Suspected of damaging fertility or the unborn child

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H373 - May cause damage to the following organs through prolonged or repeated exposure: Blood system, kidneys

**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
- Do not breathe dust/fume/gas/mist/vapors/spray
- Avoid release to the environment

**Precautionary statements-(Response)**

- IF exposed or concerned: Get medical advice/attention
- Collect spillage

**Precautionary statements-(Storage)**

- No

**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**

C16H14N2O2S

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS No
Mefenacet Reference Material	99.0	298.36	N/A	8- (7) -827	73250-68-7

**Impurities and Stabilizing additives** No  
which constitute the substance

### 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,

**Unsuitable extinguishing media**

No information available

**Special extinguishing method**

Evacuate area and fight fire from a safe distance

**Specific hazards arising from the chemical product**

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

**Protection of 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 contaminant and methods and materials for cleaning up

Do not touch spilled material without suitable protection(See section 8). After material is completely picked up, wash the spill site with soap and water and ventilate the area. Put all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose of contaminated clothing.

### Recovery, 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.

#### Precautions

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

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 degree C) place.

##### Safe packaging material

Glass

#### Incompatible substances

Strong oxidizing agents

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering controls

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.

#### Control parameters

Not regulated

#### 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

#### Eye protection

protective eyeglasses or chemical safety goggles

#### Skin and body protection

Long-sleeved work clothes

### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	white crystalline powder
Odor	No data available
pH	
Melting point/freezing point	134-138 °C
Boiling point, initial boiling point and boiling range	No data available
Flash point	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
Vapour pressure	No data available
Vapour density	No data available
Specific Gravity (relative density)	No data available
Solubilities	acetone : soluble . water : practically insoluble, or insoluble .
n-Octanol/water partition coefficient: (log Pow)	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity (coefficient of viscosity)	No data available
Dynamic viscosity	No data available

## Section 10: STABILITY AND REACTIVITY

### Stability

Stability	May be altered by light.
Reactivity	No data available

### Hazardous reactions

May cause ignition on contact with strong oxidizing agents

### Conditions to avoid

Extremes of temperature and direct sunlight

### Incompatible materials

Strong oxidizing agents

### Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), Sulfur oxides (SO<sub>x</sub>), Nitrogen oxides (NO<sub>x</sub>)

## Section 11: TOXICOLOGICAL INFORMATION

### Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Mefenacet Reference Material	> 5000 mg/kg ( Rat )	> 5000 mg/kg ( Rat )	> 0.134 mg/L ( Rat ) 4 h

Component	Acute toxicity -oral- source information	Based on the NITE GHS classification results.	Acute toxicity -inhalation gas- source information
Mefenacet Reference Material 73250-68-7 ( 99.0 )	LD50(oral, rat):> 5,000 mg/kg(RTECS (2006), IUCLID (2000)).	LD50 (skin, rat):> 5,000 mg/kg(RTECS (2006), IUCLID (2000)).	Based on the NITE GHS classification results.

### Skin irritation/corrosion

Component	Skin corrosion irritation source information
Mefenacet Reference Material 73250-68-7 ( 99.0 )	Based on the NITE GHS classification results.

### Serious eye damage/ irritation

Component	Serious eye damage source information
Mefenacet Reference Material 73250-68-7 ( 99.0 )	Based on the NITE GHS classification results.

**Respiratory or skin sensitization**

Component	Respiratory, Skin sensitization source information
Mefenacet Reference Material 73250-68-7 ( 99.0 )	Based on the NITE GHS classification results.

**Reproductive cell mutagenicity**

Component	Mutagenic source information
Mefenacet Reference Material 73250-68-7 ( 99.0 )	Based on the NITE GHS classification results.

**Carcinogenicity**

Component	Carcinogenicity source information
Mefenacet Reference Material 73250-68-7 ( 99.0 )	Based on the NITE GHS classification results.

**Reproductive toxicity**

Component	Reproductive toxicity source information
Mefenacet Reference Material 73250-68-7 ( 99.0 )	No description about the general toxicity of the parent animal, but effect (fetal death, abnormal musculoskeletal system) can be seen in the development of offspring. (IUCLD (2000), RTECS (2006)).

**STOT-single exposure**

Component	STOT -single exposure- source information
Mefenacet Reference Material 73250-68-7 ( 99.0 )	Based on the NITE GHS classification results.

**STOT-repeated exposure**

Component	STOT -repeated exposure- source information
Mefenacet Reference Material 73250-68-7 ( 99.0 )	Based on the NITE GHS classification results.

**Aspiration hazard**

Component	Aspiration Hazard source information
Mefenacet Reference Material 73250-68-7 ( 99.0 )	Based on the NITE GHS classification results.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Mefenacet Reference Material	N/A	LC50: <i>Oncorhynchus mykiss</i> 6.8 mg/L 96 h	N/A

**Other data**

Component	Aquatic toxicity -Acute- source information	Aquatic toxicity -Chronic- source information
Mefenacet Reference Material 73250-68-7 ( 99.0 )	ErC50(Chlorophyta):0.226mg/L (Pesticide registration application materials, 2004) .	Acute toxicity is a Category 1, but it is estimated bioaccumulation is low (log Kow=3.23 (PHYSPROP Database, 2005) ) 、 Estimated that there is no rapid degradation. (BIOWIN) .

<b>Persistence and degradability</b>	No information available
<b>Bioaccumulative potential</b>	No information available
<b>Mobility in soil</b>	No information available
<b>Hazard to the ozone layer</b>	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	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. Mefenacet
UN classification	9
Subsidiary hazard class	
Labels	
Packing group	III
ERG Code	9L
Marine pollutant	Yes

**IMDG**

UN number	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. Mefenacet
UN classification	9
Subsidiary hazard class	
Packing group	III
EmS-No	F-A, S-F
Marine pollutant (Sea)	Yes

**IATA**

UN number	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. Mefenacet
UN classification	9
Subsidiary hazard class	
Packing group	III
Environmentally Hazardous Substance	Yes

## Section 15: REGULATORY INFORMATION

**International Inventories**

EINECS/ELINCS	Listed
TSCA	-

**Japanese regulations**

Fire Service Act	No
Poisonous and Deleterious Substances Control Law	No
Industrial Safety and Health Act	No
Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc	No
Regulations for the carriage and storage of dangerous goods in ship	Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)
Civil Aeronautics Law	Misellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)
Marine Pollution Prevention Law	
Pollutant Release and Transfer Register Law	Class 1
第1種-No.	402
Water Pollution Control Act	No
ETCO	Not applicable

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## Section 16: OTHER INFORMATION

### Literature and references

#### Revision Note

No information available

### Disclaimer

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(2010). \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**