



## Safety Data Sheet

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

**Product identifier:**

Product name: 3-Chloroperbenzoic acid(m-)

SDS No. : 1613E-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

### 2. Hazards identification

**GHS classification and label elements of the product****Classification of the substance or mixture****PHYSICAL AND CHEMICAL HAZARDS**

Organic peroxides: Type D

**HEALTH HAZARDS**

Acute toxicity (Oral): Category 4

Skin corrosion/irritation: Category 2

Serious eye damage/eye irritation: Category 2A

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

**Label elements**

Signal word: Danger

**HAZARD STATEMENT**

Heating may cause a fire

Harmful if swallowed

Causes skin irritation

Causes serious eye irritation

**PRECAUTIONARY STATEMENT****Prevention**

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

Keep only in original container.

Ground/bond container and receiving equipment.

Wash contaminated parts thoroughly after handling.

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

Do not eat, drink or smoke when using this product.

**Response**

In case of fire: Use appropriate media other than water for extinction.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

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.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

#### Storage

Store in a well-ventilated place. Keep cool.

Protect from sunlight.

Store away from other materials.

Store at holding down to specified temperatures or less.

#### Disposal

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

#### Specific Physical and Chemical hazards

Burn explosively by shock or heating.

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### 3. Composition/information on ingredients

#### Mixture/Substance selection:

##### Substance

Ingredient name:3-Chloroperbenzoic acid(m-)

Content (%):60-75

Chemical formula:C1C6H4C(O)OOH

Chemicals No, Japan:3-3987

CAS No.:937-14-4

MW:172.57

ECNO:213-322-3

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

#### Impurities and stabilizing additives

Stabilizing additive : Water 25-40%

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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.

Wash with plenty of soap and water.

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

In case of fire, use water mist, water jet, foam, dry sand to extinguish.

##### Unsuitable extinguishing media

Inactive gas firefighting equipment

Halogenated firefighting system



Dry-powder firefighting equipment – phosphate etc.  
Dry-powder firefighting equipment – hydrogen carbonate etc.  
Dry-powder firefighting equipment – except for phosphate etc.,hydrogen carbonate etc.  
Carbon dioxide extinguisher  
Halogenated extinguisher  
Dry-powder extinguisher – phosphate etc.  
Dry-powder extinguisher – hydrogen carbonate etc.  
Dry-powder extinguisher – except for phosphate etc.,hydrogen carbonate etc.  
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.  
Avoid raising dust.

Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

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.  
Ground/bond container and receiving equipment.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.  
Avoid contact with eyes.

Safety Measures

Wear protective gloves/protective clothing/eye protection/face protection.  
When using do not eat, drink or smoke.

Any incompatibilities

See "10.Stability and Reactivity"

Advice on general occupational hygiene

Wash contaminated parts thoroughly after handling.  
Do not eat, drink or smoke when using this product.



Take off contaminated clothing and wash it before reuse.

#### Storage

##### Conditions for safe storage

Keep container tightly closed.

Chilled storage.

Store at holding down to specified temperatures or less.

##### (Incompatible storage condition)

Protect from sunlight.

Store away from other materials.

##### Container and packaging materials for safe handling

Keep only in original container.

Glass

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## 8. Exposure controls/personal protection

### Control parameters

### 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: Crystalline powder

Color: White to light yellow

Odor data is not available.

pH data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Melting point/Freezing point: 90°C

Decomposition temperature data is not available.

Flammability (gases, liquids and solids) data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Vapor pressure data is not available.

Relative vapor density (Air=1) data is not available.

Density and/or relative density data is not available.

Kinematic viscosity data is not available.

#### Solubility:

Solubility in water data is not available.

n-Octanol/water partition coefficient data is not available.

No Particle characteristics data is not available.



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## 10. Stability and Reactivity

### Reactivity

Not available.

### Chemical stability

May be converted by the light.

### Possibility of hazardous reactions

Not available.

### Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

### Incompatible materials

Strong oxidizing agents

### Hazardous decomposition products

Carbon oxides, Chlorine compounds

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## 11. Toxicological Information

### Information on toxicological effects

#### Acute toxicity

##### Acute toxicity (Oral)

[Company proprietary data]

(3-Chloroperbenzoic acid(m-))

Category 4

#### Irritant properties

##### Skin corrosion/irritation

[Company proprietary data]

(3-Chloroperbenzoic acid(m-))

Category 2

##### Serious eye damage/irritation

[Company proprietary data]

(3-Chloroperbenzoic acid(m-))

Category 2A

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenic effects data is not available.

Reproductive toxicity data is not available.

#### STOT

STOT-single exposure data is not available.

STOT-repeated exposure data is not available.

Aspiration hazard data is not available.

#### Additional data

May cause lung disorders by massive inhalation of powdered substance.

-e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax

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## 12. Ecological Information

### Ecotoxicity

Ecotoxicity data is not available.

### Persistence and degradability

Persistence and degradability data is not available.

### Bioaccumulative potential

Bioaccumulative potential data is not available.

**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**

UN No.: 3106

Proper Shipping Name :

ORGANIC PEROXIDE TYPE D, SOLID

Class or division : 5.2

ERG GUIDE No.: 145

Special provisions No.: 122; 274; 323

**IMDG Code (International Maritime Dangerous Goods Regulations)**

UN No.: 3106

Proper Shipping Name :

ORGANIC PEROXIDE TYPE D, SOLID

Class or division : 5.2

Special provisions No.: 122; 274

**IATA Dangerous Goods Regulations**

UN No.: 3106

Proper Shipping Name :

ORGANIC PEROXIDE TYPE D, SOLID

Class or division : 5.2

Hazard labels : Organic peroxide & keep away from heat

Special provisions No.: A20; A802

**Environmental hazards**

MARPOL Annex III – Prevention of pollution by harmful substances

Marine pollutants (yes/no) : no

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**15. Regulatory Information**

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

**US major regulations**

Chemicals listed in TSCA Inventory

3-Chloroperbenzoic acid(m-)

**Other regulatory information**

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

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**16. Other information****GHS classification and labelling**

Org. Perox. D: H242 Heating may cause a fire

Acute Tox. 4: H302 Harmful if swallowed

Skin Irrit. 2: H315 Causes skin irritation

Eye Irrit. 2A: H319 Causes serious eye irritation

**Reference Book**

Globally Harmonized System of classification and labelling of chemicals, (6th ed., 2015), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18)  
IATA Dangerous Goods Regulations (60th Edition) 2019  
Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)  
2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)  
2019 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 2018).