

Revision Date:
2022/09/13

Spec ID:
900000015063

Date of last issue: 2021/11/10
Date of first issue: 2013/08/22

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SumiOne
Synonyms : SumiOne Technical Grade

Manufacturer or supplier's details

Company : SUMITOMO CHEMICAL Co., Ltd.
Contact person : Environmental Health Division
7-1, Nihonbashi 2-chome, Chuo-ku, Tokyo 103-6020, Japan
Telephone : +81-6-6220-3675
Telefax : +81-6-6220-3492
Emergency telephone number : Asia - Pacific region (excluding China):
+65-3158-1074(CARECHEM24, Singapore)
China: 400-120-6011 (CARECHEM24, China, toll-free, access from China only)
Europe, Americas (excluding USA), Middle East, Africa, Israel (Europe and English Language speaking countries):+44-1235-239-670(CARECHEM24, UK)
Middle East/Africa (Arabic speaking countries):+44-1235-239-671(CARECHEM24, UK)
USA (Domestic call):+1-800-424-9300(CHEMTREC, USA)
USA (International call; collect calls accepted):+1-703-527-3887(CHEMTREC, USA)
E-mail address : ehd-sds@ya.sumitomo-chem.co.jp

Recommended use of the chemical and restrictions on use

Use : Active ingredient for insecticide

2. HAZARDS IDENTIFICATION

GHS Classification

Explosives : Not applicable
Flammable gases : Not applicable
Aerosols : Not applicable
Oxidizing gases : Not applicable
Gases under pressure : Not applicable
Flammable liquids : Classification not possible
Flammable solids : Not applicable
Self-reactive substances and mixtures : Classification not possible
Pyrophoric liquids : Not applicable

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|--|-------------------------------|
| Pyrophoric solids | : Not applicable |
| Self-heating substances and mixtures | : Classification not possible |
| Substances and mixtures, which in contact with water, emit flammable gases | : Not applicable |
| Oxidizing liquids | : Classification not possible |
| Oxidizing solids | : Not applicable |
| Organic peroxides | : Classification not possible |
| Corrosive to metals | : Classification not possible |
| Acute toxicity (Oral) | : Category 5 |
| Acute toxicity (Dermal) | : Not classified |
| Acute toxicity (Inhalation - gas) | : Not applicable |
| Acute toxicity (Inhalation - vapor) | : Classification not possible |
| Acute toxicity (Inhalation - dust and mist) | : Category 4 |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/eye irritation | : Not classified |
| Respiratory sensitisation | : Classification not possible |
| Skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity - single exposure | : Category 1 (Nervous system) |
| Specific target organ toxicity - repeated exposure | : Category 2 (Nervous system) |
| Aspiration hazard | : Classification not possible |
| Acute aquatic toxicity | : Category 1 |
| Chronic aquatic toxicity | : Category 1 |
| Hazardous to the ozone layer | : Classification not possible |

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GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H303 May be harmful if swallowed.
H332 Harmful if inhaled.
H370 Causes damage to nervous system.
H373 May cause damage to nervous system through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P264 Wash face and hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.

Response:

P391 Collect spillage.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/ doctor if you feel unwell.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.
P314 Get medical advice/attention if you feel unwell.
P321 Specific treatment (See "4. First-aid measure") .

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container appropriately in accordance with local/regional/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

| Chemical Name | CAS-No. | Concentration(%) |
|---|----------------------|------------------|
| 2,3,5,6-Tetrafluoro-4-methoxymethylbenzyl (EZ)-(1RS, 3RS;1RS,3SR)-2,2-dimethyl-3-(prop-1-enyl) cyclopropanecarboxylate <i>trans</i> -isomer ratio: 97.0% min. 1 <i>R</i> -isomer ratio: 95.0% min. (ISO common name: metofluthrin) | 240494-70-6(racemic) | 94.1-99.3 |

4. FIRST AID MEASURES

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- If inhaled : Remove person to fresh air and keep comfortable for breathing.
Administer oxygen if breathing is difficult.
If breathing has stopped, apply artificial respiration.
Do not use mouth-to-mouth method.
Rinse nose, mouth and throat with water.
Keep person warm with a blanket etc.
If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Effect of exposure to substance may be delayed. Medical observation is indicated.
Get immediate medical advice/attention.
- In case of skin contact : Gently wash with plenty of soap and water.
Remove/Take off immediately contaminated clothing and shoes.
If skin irritation or rash occurs: Get medical advice/attention.
- In case of eye contact : Do not rub eye.
Hold eyelids apart.
Begin to rinse with water as soon as possible and rinse cautiously for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Get immediate medical advice/attention, if necessary.
- If swallowed : Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious.
Never give anything by mouth to an unconscious person.
Get immediate medical advice/attention.
Remove person to fresh air and keep comfortable for breathing.
Keep person warm with a blanket etc.
If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Administer oxygen if breathing is difficult.
If breathing has stopped, apply artificial respiration.
Do not use mouth-to-mouth method.
Effect of exposure to substance may be delayed. Medical observation is indicated.
- Protection of first-aiders : During rescue operations, wear protective equipment (see "8. Exposure control/personal protection").
Give artificial respiration with the aid of pocket mask equipped with a one-way valve or other proper respiratory medical device; Do NOT use mouth-to-mouth method.
Be aware of own risk during rescue!
- Notes to physician : Phenobarbital treatment may be effective to convulsion in the setting of acute poisoning, as palliative treatment.
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5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Dry chemical powder
Regular foam
Carbon dioxide
Dry sand

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- Unsuitable extinguishing media : Straight streams
- Specific hazards during firefighting : Cool containers with an appropriate cooling means, paying heed to incompatible hazardous substances (see "10. Stability and reactivity").
The combustion gas and/or the decomposition gas may contain an irritating, corrosive and/or toxic gas.
Harmful gases (see "10. Stability and reactivity") may be released by fire and may cause dizziness, suffocation, or other health hazards.
Harmful substances in the water runoff from fire control may have adverse environmental and biological effects.
- Specific extinguishing methods : Keep upwind.
Fight fire from a protected location.
Keep unauthorized personnel away.
In case of a large fire and large quantities: Evacuate the area and extinguish the fire from a distance in accordance with the risk of explosion.
Protecting other nearby combustibles before they catch fire: Remove containers or sprinkle them with water, etc., if this can be done safely.
Protecting the product from external fire: Remove product-containing containers to a safe place, or cool the nearby equipment with water, etc., if this can be done safely.
If the fire cannot be stopped, let it burn itself out while cooling with water spray to prevent the fire from spreading.
Confining and smothering fire is preferable.
Stop leak if possible without any risk.
Dike fire water for later disposal; do not spread the material.
- Special protective equipment for firefighters : Wear regional, national, and local standards approved fire fighting turnout gear and positive pressure self-contained breathing apparatus (SCBA).
Wear flame-resistant or fireproof clothes, with face shield, helmet and gloves.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Personal precautions
Wear appropriate protective equipment (see "8. Exposure control/personal protection") to avoid contact of droplets with the eyes or skin, or inhalation of mist or vapors.
Emergency procedures
Evacuate people who are downwind, and keep upwind while working.
Keep unauthorized personnel away.
If the surrounding area may be affected (including health impairment), warn the nearby residents.
Remove immediately all ignition sources nearby.
Form large safety zone.
In case of a large spill, use foam to reduce vapors.
Prevention of secondary hazards
ELIMINATE all ignition sources such as heat/sparks/open flames/hot surfaces/static discharges.

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- Prepare appropriate extinguishing agent. (See "5. Fire-fighting measures")
Prevent discharge into drain ditches, drain sewers, basements or closed areas.
- Environmental precautions : Do not release the product to the environment.
Form a dike to prevent the leakage from flowing into waterways (rivers, sewers, etc.) and affecting the environment.
- Methods and materials for containment and cleaning up : Collect the leakage promptly.
Stop leak if possible without any risk.
Collect the leakage in a sealed container as far as possible.
Dike far ahead of liquid spill for later disposal.
Absorb remaining liquid in dry earth, sand or other non-combustible material and remove to safe place.
Collect the entire amount by repeatedly sopping it up with a suitable absorbent material.
Use explosion-proof electrical/ventilating/lighting/equipment.
ELIMINATE all ignition sources such as heat/sparks/open flames/hot surfaces/static discharges.
Consult with an expert when collecting the leakage.
Collect the residue carefully and transfer it to a safe place.
Collect leakage after taking measures for safe handling (see "7. Handling and storage").
See "13. Disposal considerations".

7. HANDLING AND STORAGE

- Technical measures : ELIMINATE all ignition sources!
Take precautionary measures against static electricity such as grounding and bonding, wearing anti-static footwear and clothing, using grounded conductive floor.
Use explosion-proof electrical/ventilating/lighting/equipment.
Prevent generation of mist.
Keep upwind while working, being ready for exposure to the leakage.
Use only outdoors or in a well-ventilated area.
Do not eat, drink or smoke when using this product.
Install appropriate equipment and wear appropriate personal protective equipment (see "8. Exposure control/personal protection").
Do not breathe mist or vapours.
Do not get in eyes or mouth or on skin.
Avoid contact with eyes, skin, and clothing.
Do not bring contaminated protective equipment into the rest area.
Wear an appropriate protective equipment to avoid contact to skin, mucosa membrane or eyes.
Use disposable protective clothing, if possible.
Contaminated work clothing should be disposed or be cleaned and reused, with appropriate way.
Dispose of contaminated protective clothing safely.
- Local/Total ventilation : Ventilate by a system of local and/or general exhaust.
- Advice on safe handling : Keep away from incompatible materials (see "10. Stability and

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- reactivity").
Avoid inhaling.
- Conditions for safe storage : Keep in a fire-proof designed place.
Store under controlled lighting and appropriate ventilation.
Store locked up.
Take precautionary measures against static electricity such as grounding and bonding, wearing anti-static footwear and clothing, using grounded conductive floor.
Ground/bond container and receiving equipment.
Keep away from food, drink and animal feedings.
Store in a dark place.
Store in a well-ventilated place.
Keep cool.
Store in an area without drain or sewer access.
See "10. Stability and reactivity"
- Packaging material : Use container ruled in UNRTDG (UN Recommendations on the Transport of Dangerous Goods).
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering measures** : Use a local and/or general ventilation system with absorber.
Provide facilities to wash hands, eyes, and the body at the working place.
- Personal protective equipment**
- Respiratory protection : Be sure to use breathing protective equipment only chosen according to specific regulatory requirements after a risk assessment.
When an emergency or leak occurs, wear air respirator or positive pressure self-contained breathing apparatus (SCBA).
- Hand protection : Be sure to use hand protective equipment only chosen according to specific regulatory requirements after a risk assessment.
Impervious gloves
- Eye protection : Be sure to use eye protective equipment only chosen according to specific regulatory requirements after a risk assessment.
Chemical safety goggles or glasses and full face shield.
- Skin and body protection : Be sure to use personal protective equipment (PPE) only chosen according to specific regulatory requirements after a risk assessment.
Suitable impervious protective clothing, including protective footwear, gloves, lab coat, apron or coveralls.
- Hygiene measures : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use only outdoors or in a well-ventilated area, unless it can be handled in closed system.
Do not inhale this product.
Avoid all exposure to a person.

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Do not get in eyes or mouth or on skin.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should be disposed or be cleaned and reused, with appropriate way.
When disposing of contaminated protective equipment and work clothes, take appropriate measures to prevent contamination of the surrounding environment.
Wash face and hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|--|---|---|
| Appearance | : | Transparent viscous liquid |
| Colour | : | Colourless or pale yellow to light yellow |
| Odour | : | A slight characteristic odor |
| pH | : | 5.24 (1% aqueous suspension 25 °C) |
| Melting point | : | -54.92 °C |
| Boiling point | : | 340.36 °C |
| Flash point | : | 178 °C Method: Cleveland Open Cup |
| Evaporation rate | : | no data available |
| Upper explosion limit / upper flammability limit | : | no data available |
| Lower explosion limit / Lower flammability limit | : | no data available |
| Vapour pressure | : | 1.896x10 ⁻³ Pa (25 °C) 8.969x10 ⁻⁴ Pa (20 °C) |
| Relative vapour density | : | no data available |
| Relative density | : | 1.209 (20 °C) |
| Density | : | no data available |
| Water solubility | : | 0.3462 - 0.5358 mg/l |
| Solubility in other solvents | : | > 250 g/l (20 °C) Solvent: <i>n</i> -Heptane > 250 g/l (20 °C) Solvent: Methanol > 250 g/l (20 °C) Solvent: Acetone > 250 g/l (20 °C) |

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Solvent: *p*-Xylene
> 250 g/l (20 °C)
Solvent: Ethyl acetate

Partition coefficient: n-octanol/water : log Pow: 4.88

Auto-ignition temperature : no data available

Decomposition temperature : no data available

Viscosity, kinematic : 19.3 mm²/s (20 °C)

10. STABILITY AND REACTIVITY

Chemical stability : Material is stable under normal conditions.

Possibility of hazardous reactions : Mist may form an explosive mixture with air regardless of temperature.
Strong bases
Open flame
Mechanical spark
Electrical spark
Welding spark
Hot surface(s)
Heating
Friction heat
Electrostatic discharge
: may cause a fire and/or explosion
Strong oxidizing agents
Strong acids
: may cause a fire, explosion, and generation of a toxic gas

Conditions to avoid : Open flame
Mechanical spark
Electrical spark
Welding spark
Heating
Hot surface(s)
Electrostatic discharge

Incompatible materials : Strong oxidizing agents
Strong acids
Strong bases

Hazardous decomposition products : Carbon monoxide
Carbon dioxide
Hydrocarbons
Soot
Hydrogen fluoride
Fluorine compounds

11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Oral

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exposure
Inhalation
Dermal
Eyes

Acute toxicity

Acute oral toxicity : LD50(Rat): > 2,000 mg/kg
Target Organs: Nervous system

Acute inhalation toxicity : LC50(Rat): 1,000 - 2,000 mg/m³
Exposure time: 4 h
Target Organs: Nervous system
Remarks: Dusts, mists and fumes

Acute dermal toxicity : LD50(Rat): > 2,000 mg/kg
Target Organs: No specific target organs noted.

Skin corrosion/irritation

Species : Rabbit
Result : Not irritating

Serious eye damage/eye irritation

Species : Rabbit
Result : Minimally irritating

Respiratory or skin sensitisation

Test Type : Skin sensitisation
Species : Guinea Pig
Method : Maximization test
Result : non-sensitizer

Germ cell mutagenicity

Genotoxicity in vitro : Test Type: Ames test
Test system: S. typhimurium and E. coli
Result: negative

Test Type: chromosome aberration test
Test system: Chinese hamster cell
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse
Cell type: Bone marrow
Application Route: Oral
Result: negative

Carcinogenicity

Species : Rat
Application Route : diet
Method : carcinogenicity study
Result : Neoplastic lesions (hepatocellular adenomas and carcinomas)
Target Organs : Liver (Hepatocellular adenomas and carcinomas are specific to a rat and not relevant to human cancer.)

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Species : Mouse
Application Route : diet
Method : carcinogenicity study
Result : non-carcinogenic

Reproductive toxicity

Effects on fertility : Species: Rat
Application Route: diet
Method: reproductive toxicity study
Result: no effect on reproduction

Species: Rat
Application Route: Oral
Method: Study of Fertility and Early Embryonic Development to Implantation
Result: no effect on fertility

Species: Rat
Application Route: Oral
Method: Study for effects on pre- and postnatal development, including maternal function
Result: no effect on fertility

Effects on foetal development : Species: Rat
Application Route: Oral
Method: teratology study
Result: non-teratogenic

Species: Rabbit
Application Route: Oral
Method: teratology study
Result: non-teratogenic

STOT - single exposure

See Acute toxicity ("11. Toxicological information")

STOT - repeated exposure

Species : Rat
Application Route : Inhalation
Method : 28-day repeated dose toxicity study
Target Organs : Nervous system

Species : Rat
Application Route : diet
Method : 90-day repeated dose toxicity study
Target Organs : No specific target organs noted.

Species : Rat
Application Route : Dermal
Method : 90-day repeated dose toxicity study
Target Organs : No specific target organs noted.

Species : Dog
Application Route : Oral
Method : 90-day repeated dose toxicity study

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Target Organs : Nervous system

Species : Dog

Application Route : Oral

Method : 1-year chronic toxicity study

Target Organs : Nervous system

Aspiration toxicity

no data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish : LC50 (Common Carp): 3.06 µg/l
Exposure time: 96 hrs

LC50 (Bluegill Sunfish): 2.7 µg/l
Exposure time: 96 hrs

LC50 (Rainbow Trout): 1.2 µg/l
Exposure time: 96 hrs

LC50 (Sheepshead Minnow): 8.7 µg/l
Exposure time: 96 hrs

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 4.7 µg/l
Exposure time: 48 hrs

Toxicity to algae : ErC50 (Green algae): 0.37 mg/l
Exposure time: 72 hrs

NOECr (Green algae): 0.11 mg/l
Exposure time: 72 hrs

Toxicity to fish (Chronic toxicity) : NOEC: 0.22 µg/l
Species: Rainbow Trout

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.72 µg/l
Exposure time: 21 Days
Species: Daphnia magna

Persistence and degradability

Biodegradability : Result: lack of rapid biodegradability

Bioaccumulative potential

Bioaccumulation : Species: Common Carp
Bioconcentration factor (BCF): 110 - 120

Mobility in soil

no data available

Other adverse effects

Ozone-Depletion Potential : Regulation: UNEP - Handbook for the Montreal Protocol on Substances that Deplete the Ozone Layer

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Remarks: not listed to the Montreal Protocol

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose of contents/container appropriately in accordance with local/regional/national/international regulations.

14. TRANSPORT INFORMATION

Additional information (See "Special safety measures concerning transportation or transportation means")

The environmentally hazardous substance mark is not required when transported in sizes of ≤5L or ≤5kg.

The marine pollutant mark is not required when transported in sizes of ≤5L or ≤5kg.

International Regulations

UNRTDG

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (METOFLUTHRIN).
Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (METOFLUTHRIN).
Class : 9
Packing group : III
Labels : Miscellaneous Dangerous Goods
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (METOFLUTHRIN).
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Special safety measures concerning transportation or transportation means

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packing containing a net quantity per single or inner packaging of 5L or less for liquids or having a net mass per single or inner packaging of 5kg or less for solids may be transferred as non-dangerous goods as provided in IATA Special Provision A197, IMDG code 2.10.2.7, and ADR/RID Special Provision 375.

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

Remarks : Make sure no damage, corrosion, leaks, and so on on the container(s) before transportation.
Load not to fall, drop, damage the product, and make sure to take measures to secure the loaded products.
Equip in automobile or ship for transportation with protective equipment (gloves, eyeglasses, mask, etc), and fire extinguisher, tools necessary for emergency.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

Please follow local regulations.

16. OTHER INFORMATION

Note

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packing containing a net quantity per single or inner packaging of 5L or less for liquids or having a net mass per single or inner packaging of 5kg or less for solids may be transferred as non-dangerous goods as provided in IATA Special Provision A197, IMDG code 2.10.2.7, and ADR/RID Special Provision 375.

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