

# SAFETY DATA SHEET

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Sumilarv 0.5%G

**Limitations on use:** Insecticide

**Supplier:**

**Company Name:** SUMITOMO CHEMICAL COMPANY, LIMITED  
**Contact Department / Section:** Environmental Health Division Marketing Dept.- International  
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Middle East/Africa (Arabic speaking countries): +44-1235-239-671 (CARECHEM24, UK)  
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USA (International call; collect calls accepted): +1-703-527-3887 (CHEMTREC, USA)

## 2 HAZARDS IDENTIFICATION

**GHS classification:**

<b>Physical hazards</b>	Explosives	Not applicable
	Flammable gases	Not applicable
	Flammable aerosols	Not applicable
	Oxidizing gases	Not applicable
	Gases under pressure	Not applicable
	Flammable liquids	Not applicable
	Flammable solids	Classification not possible
	Self-reactive substances and mixtures	Classification not possible
	Pyrophoric liquids	Not applicable
	Pyrophoric solids	Not classified
	Self-heating substances and mixtures	Classification not possible
	Substances and mixtures, which in contact with water, emit flammable gases	Not applicable
	Oxidizing liquids	Not applicable
	Oxidizing solids	Classification not possible
	Organic peroxides	Not applicable
	Corrosive to metals	Classification not possible
	<b>Health hazards</b>	Acute toxicity (Oral)
Acute toxicity (Dermal)		Not classified
Acute toxicity (Inhalation - gas)		Not applicable
Acute toxicity (Inhalation - vapour)		Classification not possible
Acute toxicity (Inhalation - dust and mist)		Classification not possible
Skin corrosion/irritation		Not classified
Serious eye damage/eye irritation		Not classified
Respiratory sensitizer		Classification not possible
Skin sensitizer		Not classified
Germ cell mutagenicity	Classification not possible	
Carcinogenicity	Category 1	

	Toxic to reproduction	Classification not possible
	Specific target organ toxicity - single exposure	Category 1 (Respiratory System)
	Specific target organ toxicity - repeated exposure	Category 1 (Kidneys, Respiratory System)
	Aspiration hazard	Classification not possible
<b>Environmental hazards</b>	Acute hazards to the aquatic environment	Category 2
	Chronic hazards to the aquatic environment	Category 1
	Hazardous to the ozone layer	Classification not possible

**GHS label elements**

**Symbol(s):**



**Signal words:** Danger

**Hazard Statement(s):**  
 H350: May cause cancer.  
 H370: Causes damage to respiratory system.  
 H372: Causes damage to kidneys, respiratory system through prolonged or repeated exposure.  
 H401: Toxic to aquatic life.  
 H410: Very toxic to aquatic life with long lasting effects.

**Precautionary statement**

**Prevention:**

P201: Obtain special instructions before use.  
 P202: Do not handle until all safety precautions have been read and understood.  
 P270: Do not eat, drink or smoke when using this product.  
 P260: Do not breathe dust/fume/gas/mist/vapors/spray.  
 P273: Avoid release to the environment.  
 P264: Wash face and hands thoroughly after handling.  
 P281: Use personal protective equipment as required.

**Response:**

P391: Collect spillage.  
 P307+P311: IF exposed: Call a POISON CENTER or doctor/physician.  
 P308+P313: IF exposed or concerned: Get medical advice/attention.  
 P314: Get medical advice/attention if you feel unwell.

**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 or Mixture:** Mixture

Chemical name	CAS-No.	Concentration
4-phenoxyphenyl (RS)-2-(2-pyridyloxy)propyl ether (ISO common name : pyriproxyfen)	95737-68-1	0.5%
Emulsifier	Non-disclosure	1.0%
Solvent	Non-disclosure	3.0%
Mineral carrier	Non-dsiclosure	95.5%

**Hazardous Component(s):**

Chemical name	CAS-No.	Concentration
Crystalline silica	14808-60-7	<= 5.0%

**4 FIRST AID MEASURES**

<b>Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method. Keep victim warm with a blanket etc. Get immediate medical advice/attention. 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.
<b>Skin contact:</b>	Remove/Take off immediately contaminated clothing and shoes. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
<b>Eye contact:</b>	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.
<b>Ingestion:</b>	Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Do not give victim anything to drink if he is unconscious. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Keep victim warm with a blanket etc. Get immediate medical advice/attention. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Administer oxygen if breathing is difficult. Apply artificial respiration if victim is not breathing. Effect of exposure to substance may be delayed. Medical observation is indicated.
<b>Personal Protection for First-aid Responders:</b>	Be aware that this product contains Carcinogen material. Use personal protective equipment as required.

**5 FIRE-FIGHTING MEASURES**

<b>Extinguishing media:</b>	Small fires: dry chemical powder, carbon dioxide, water spray, regular foam Large fires: water spray, fog, regular foam
<b>Unsuitable extinguishing media:</b>	Straight streams
<b>Unusual Fire &amp; Explosion Hazards:</b>	Risk of fire and explosion on contact with incompatible material(s). Inorganic fillers may be contained in smoke and fume by fire. Containers may explode when heated. Contact may cause burns to skin and eyes. Runoff and fire-control water may pollute waters.
<b>Special fire fighting procedures:</b>	Keep upwind. Keep unauthorized personnel away. If possible, remove containers exposed to heat or cool with water. Dike fire water for later disposal; do not spread the material.
<b>Protective Measures:</b>	Wear regional, national, and local standards approved fire fighting turnout gear and positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection from heat, and may not provide adequate protection from the harmful vapors or liquids.

## 6 ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Wear appropriate protective equipment. Use personal protection recommended in "8. Exposure control/personal protection". Provide adequate ventilation. Keep upwind. Isolate spill or leak area for proper distance in all directions. Do not breathe dust/fume/gas/mist/vapors/spray. Do not touch or walk through spilled material. Wash face and hands thoroughly after handling.
- Emergency procedures:** Keep all unauthorized personnel upwind away. Consult an expert. Warn habitants surroundings. Navigation lock on waterways. Form large safety zone.
- Environmental precautions:** Prevent entry spilled material and runoff from spillage control into waterways, sewers, basements or confined areas. Avoid release to the environment. Collect spillage.
- Clean-up methods and materials and containment measures:** Stop leak if possible without any risk. Collect scattered product into sealable containers. Moist particle solid at first to prevent scattering if appropriate. Collect fine substance by dust explosion-proof cleaner to prevent scatter. Collect remaining dust and transfer from danger area for later disposal. See "13. Disposal considerations".
- Prevention of secondary hazards:** ELIMINATE all ignition sources such as heat/sparks/open flames/hot surfaces/static discharges. Prepare appropriate extinguishing agent. (See "5. Fire-fighting measures") For large spill, consider initial downwind evacuation for proper distance. Prevent dust cloud or/and dust accumulation.

## 7 HANDLING AND STORAGE

- Handling:**
- Technical measures:** Use only outdoors or in a well-ventilated area. Keep upwind for handling outdoors as much as possible. Keep unauthorized personnel away. Avoid contact with eyes, skin, and clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Use clean non-sparking tools. ELIMINATE all ignition sources. Prevent dust cloud and dust accumulation. Take precautionary measures against static electricity such as grounding and bonding, wearing anti-static footwear and clothing, using grounded conductive floor. Do not use low conductive material to equipments and containers including plastic lining, bags and filters. Use dust explosion-proof electrical/ventilating/lighting/equipment. Inerting by nitrogen gas, etc., and explosion pressure venting of confined spaces are requested as dust explosion precautions. If above mentioned precautions are impossible, consult an expert of a specialized company.
- Exhausting, Ventilation:** Ventilate by appropriate method. (See "8. Exposure control/personal protection")
- Notes:** Install appropriate equipment and wear appropriate protective clothing. (See "8. Exposure control/personal protection") Use personal protective equipment as required.
- Safety measures:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Eating, drinking and smoking in work areas is prohibited. Contaminated work clothing should not be allowed out of the workplace. Wash hands and face thoroughly after handling.
- Storage:**
- Technical measures:** Keep containers tightly closed.
- Conditions:** Well ventilate by proper manner according to regional, national and local regulations. Store in a dry place. Keep away from incompatible materials. See

"10. Stability and reactivity". Keep away from food and feedstuffs. Store locked up.

**Packaging materials:** No information

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Appropriate engineering controls:** Use closed system and equipment, or local and/or general exhaust to maintain product dust concentrations in air below occupational exposure standards. Wear positive pressure self-contained breathing apparatus (SCBA) in circumstance above occupational exposure standards for dust including emergency procedures and cleaning for accidental release. Maintain eye wash fountain and quick-drench facilities in work area. Control equipment and handling to prevent dust explosion hazards. See "7. Handling and storage". Take precautionary measures against static electricity such as grounding and bonding, wearing anti-static footwear and clothing, using grounded conductive floor.

**Exposure limits:**

Chemical name	Type	Exposure Limit values	Regulation Sources
Crystalline silica - Respirable fraction.	TWA	0.025 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values

**Personal protective equipment (PPE):**

- Respiratory Protection:** Breathing protective equipment should be chosen only according to specific regulatory requirements. Wear positive pressure self-contained breathing apparatus (SCBA) in circumstance above occupational exposure standards for dust including emergency procedures and cleaning for accidental release.
- Hand protection:** Hand protective equipment should be chosen only according to specific regulatory requirements. Protective gloves
- Eye protection:** Eye protective equipment should be chosen only according to specific regulatory requirements. Chemical safety goggles
- Skin protection:** Personal protective equipment (PPE) should be chosen only according to specific regulatory requirements. Suitable impervious protective clothing, including protective footwear, gloves, lab coat, apron or coveralls. Use anti static discharge work wear and footwear.

**Specific Hygiene Measures:** PREVENT GENERATION OF DUST. Avoid inhalation of dust. Do not eat, drink or smoke during work. Wash thoroughly after handling and before eating or drinking. Contaminated work clothing should not be allowed out of the workplace.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

- Physical State:** Granules
- Color:** Pale yellow
- Odor:** Faint characteristic
- pH:** No data available
- Melting Point:** No data available
- Boiling Point:** No data available
- Flash Point:** No data available

<b>Autoignition Temperature:</b>	No data available
<b>Flammability Limit - Upper (%)—:</b>	No data available
<b>Flammability Limit - Lower (%)—:</b>	No data available
<b>Vapor pressure:</b>	No data available
<b>Vapor density (air=1):</b>	No data available
<b>Relative density:</b>	2.06 (22°C)
<b>Solubility in Water:</b>	No data available
<b>Solubility (other):</b>	No data available
<b>Partition coefficient (<i>n</i>-octanol / water):</b>	No data available
<b>Decomposition Temperature:</b>	No data available
<b>Evaporation Rate:</b>	No data available

## 10 STABILITY AND REACTIVITY

<b>Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Strong oxidizers, strong acids, strong bases : fire and explosion hazards. Will form explosive mixtures with air. Generation and diffusion of dust.
<b>Conditions to avoid:</b>	Heating, accumulation of static electricity
<b>Incompatible materials:</b>	Strong oxidizers, strong acids, strong bases
<b>Hazardous decomposition products:</b>	Carbon monoxide, carbon dioxide, hydrocarbons, nitrogen oxides, soot

## 11 TOXICOLOGICAL INFORMATION

If the data of this product are not available, the data of ingredients is displayed

<b>Acute Toxicity:</b>	
<b>Oral:</b>	Rat : LD <sub>50</sub> > 5,000 mg/kg Mouse : LD <sub>50</sub> > 5,000 mg/kg
<b>Dermal:</b>	Rat : LD <sub>50</sub> > 2,000 mg/kg Mouse : LD <sub>50</sub> > 2,000 mg/kg
<b>Inhalation:</b>	No data available
Pyriproxyfen	Dust/Mist: Rat : LC <sub>50</sub> (4 h) > 1.3 mg/L Dust/Mist: Mouse : LC <sub>50</sub> (4 h) > 1.3 mg/L
<b>Skin corrosion/irritation:</b>	Rabbit (skin irritation/corrosion test) : minimally irritating
<b>Serious eye damage /eye irritation:</b>	Rabbit (eye irritation/corrosion test) : mildly irritating
<b>Respiratory sensitizer</b>	Guinea pig skin sensitizer (Buehler test) : non-sensitizer

**/Skin sensitizer:**

**Germ cell mutagenicity:**

**in vitro:**  
 Pyriproxyfen No data available  
 Ames test : negative  
 Chromosome aberration test : negative  
 DNA repair assay : negative  
 Gene mutation test : negative  
 Crystalline silica  
 Unscheduled DNA synthesis assay : negative  
 Chromosome aberration test : negative  
 Micronucleus test : positive

**in vivo:**  
 Pyriproxyfen No data available  
 Micronucleus test (Mouse, oral, bone marrow) : negative  
 Crystalline silica  
 Micronucleus test (Mouse, bone marrow) : negative

**Carcinogenicity:**

Pyriproxyfen No data available  
 Rat carcinogenicity study (diet) : non-carcinogenic  
 Mouse carcinogenicity study (diet) : non-carcinogenic  
 Crystalline silica  
 Rat carcinogenicity study (Inhalation) : carcinogenic (Lung)  
 Mouse carcinogenicity study (Inhalation) : carcinogenic (Lung)

**expert judgement:**

Crystalline silica ; Quartz  
 IARC: 1 (Carcinogenic to humans.)  
 JSOH: 1 (Known carcinogen.)  
 NTP: Known To Be Human Carcinogen.  
 ACGIH: Group A2 (Suspected human carcinogen.)

**Reproductive toxicity:**

**Teratogenicity:**  
 Pyriproxyfen No data available  
 Rat teratology study (Oral) : non-teratogenic  
 Rabbit teratology study (Oral) : non-teratogenic

**Reproduction:**  
 Pyriproxyfen No data available  
 Rat reproductive toxicity study (diet) : no effect on fertility  
 Rat reproductive and developmental toxicity study (Oral) : no effect on fertility

**Specific target organ toxicity** No data available

**- single exposure:**  
 Crystalline silica (Inhalation) : respiratory system

**Specific target organ toxicity** No data available  
**- repeated exposure:**  
 Crystalline silica (Inhalation) : respiratory system, kidney

**Aspiration hazard:** No data available

**Other effects:** No data available

**12 ECOLOGICAL INFORMATION**

If the data of this product are not available, the data of ingredients is displayed

**Ecotoxicity:**

**Aquatic Organisms:**

**Acute toxicity:**

**Fish:** Common Carp : LC<sub>50</sub> (96 h) 832 mg/L  
**Crustacea:** *Daphnia pulex* : LC<sub>50</sub> (3 h) > 2,000 mg/L  
 Pyriproxyfen *Daphnia magna* : EC<sub>50</sub> (48 h) 0.075 mg/L  
**Alga:** No data available

Pyriproxyfen <b>Chronic Toxicity:</b>	Green alga : ErC <sub>50</sub> (0-72 h) 0.11 mg/L
	<b>Fish:</b> No data available
	<b>Crustacea:</b> No data available
Pyriproxyfen	<i>Daphnia magna</i> : NOEC 0.015 µg/L
	<b>Alga:</b> No data available
Pyriproxyfen	Green alga : NOECr (0-72 h) 0.038 mg/L
<b>Others:</b>	No data available
<b>Biodegradation:</b>	No data available
<b>Bioaccumulation:</b>	No data available
<b>Mobility in soil:</b>	No data available
<b>Hazardous to the ozone layer:</b>	Montreal Protocol. Substances that Deplete the Ozone Layer, as amended : 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

**International standards:**

**IMDG:**

UN number	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s. (pyriproxyfen mixture)
Class	9
Packing group	III
Subsidiary risk label	-
Marine Pollutant	Yes
EmS No.	F-A; S-F

**IATA:**

UN number	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s. (pyriproxyfen mixture)
Class	9
Packing group	III
Subsidiary risk label	-

**Domestic Standard:** In compliance with domestic law.

**Specific Safety Measures and Conditions for Transportation:**

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.

### 15 REGULATORY INFORMATION

Please follow local regulations.

### 16 OTHER INFORMATION

**Disclaimer:**

The provided information is based on currently available law, materials, information, and data; however, information regarding concentration, physical and chemical properties, and hazard identification is not guaranteed.



Precautions for safe handling are intended for a normal condition. In case of specific condition, please handle a product with appropriate safety measures that are compatible to the product usage.

Rentokil Vietnam