SAFETY DATA SHEET
s-Methoprene TG
According to Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, February 2016

SECTION 1: Identification: Product identifier and chemical identity

Product identifier
Product name s-Methoprene TG
Chemical name isopropyl (E,E)-(7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate
CAS number 65733-16-6

Relevant identified uses of the substance or mixture and uses advised against
Application Insect Growth Regulator
Uses advised against No specific uses advised against are identified.

Details of the supplier of the safety data sheet
Supplier www.sumitomo-chem.com.au
Sumitomo Chemical Australia Pty Ltd
Level 5, 51 Rawson Street,
EPPING, NSW 2121
(02) 8752 9000
(02) 8752 9099
Reception@sumitomo-chem.com.au

Emergency telephone number
Emergency telephone 1800 024 973 (Australia) 0800 243 6225 (New Zealand)

SECTION 2: Hazard(s) identification

Classification of the substance or mixture
Physical hazards Not Classified
Health hazards Skin Irrit. 2 - H315
Environmental hazards Aquatic Acute 1 - H400

Label elements
Pictogram

Signal word Warning
Hazard statements H315 Causes skin irritation.
H400 Very toxic to aquatic life.
s-Methoprene TG

Precautionary statements

P264 Wash contaminated skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P311+P338 If skin irritation occurs: Get medical advice/ attention.
P313+P332+P364 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.
P501 Dispose of contents/ container in accordance with national regulations.

Contains

s-Methoprene

Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition and information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>s-methoprene</th>
<th>min. 92%</th>
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<td>CAS number: 65733-16-6</td>
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SECTION 4: First aid measures

Description of first aid measures

General information
If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131126; New Zealand 0800 764 766), and follow the advice given. Show this Safety Data Sheet to a doctor.

Inhalation
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Get medical attention.

Ingestion
Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.

Skin Contact
Rinse with water.

Eye Contact
Get medical attention if any discomfort continues. Hold eyes open and flood with water for at least 15 minutes.

Protection of first aiders
First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
A single exposure may cause the following adverse effects: Headache. Exhaustion and weakness.

Ingestion
May cause irritation.

Skin contact
Redness. Irritating to skin.

Eye contact
No specific symptoms known. May be slightly irritating to eyes.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

SECTION 5: Firefighting measures
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Extinguishing media

Suitable extinguishing media

The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards

Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter’s clothing conforming to Australia/New Zealand Standards AS/NZS 4967 (for clothing) AS/NZS 1801 (for helmets), AS/NZS 4821 (for protective boots), AS/NZS 1801 (for protective gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Avoid inhalation of dust and vapours. Use suitable respiratory protection if ventilation is inadequate.

Environmental precautions

Environmental precautions

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

Methods and material for containment and cleaning up

Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Provide adequate ventilation. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

Reference to other sections

Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage, including how the chemical may be safely used

Precautions for safe handling
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**Usage precautions**
Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**Advice on general occupational hygiene**
Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

**Conditions for safe storage, including any incompatibilities**

**Storage precautions**
Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

**Specific end use(s)**
The identified uses for this product are detailed in Section 1

**SECTION 8: Exposure controls and personal protection**

**Control parameters**

**Exposure controls**

**Protective equipment**

**Appropriate engineering controls**
Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.

**Eye/face protection**
Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

**Hand protection**
Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with Australia/New Zealand Standard AS/NZS 2161. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

**Other skin and body protection**
Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Hygiene measures**
Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

**Respiratory protection**
Ensure all respiratory protective equipment is suitable for its intended use and complies with Australia/New Zealand Standard AS/NZS 1716. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716. Full face mask respirators with replaceable filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716. Half mask and quarter mask respirators with replaceable filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716.
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**Environmental exposure controls**
Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**SECTION 9: Physical and chemical properties**

**Information on basic physical and chemical properties**

- **Appearance**: Liquid.
- **Colour**: Pale yellow
- **Odour**: Fruity.
- **Flash point**: 147°C (Closed cup).
- **Vapour pressure**: 1.08 mPa @ 25°C
- **Relative density**: ~ 0.924 @ 20°C

**SECTION 10: Stability and reactivity**

- **Reactivity**: There are no known reactivity hazards associated with this product.
- **Stability**: Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
- **Possibility of hazardous reactions**: No potentially hazardous reactions known.
- **Conditions to avoid**: There are no known conditions that are likely to result in a hazardous situation.
- **Materials to avoid**: No specific material or group of materials is likely to react with the product to produce a hazardous situation.
- **Hazardous decomposition products**: Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO2). Carbon monoxide (CO).

**SECTION 11: Toxicological information**

**Information on toxicological effects**

- **Acute toxicity - oral**
  - Notes (oral LD₅₀): LD₅₀ >5050 mg/kg, , Rat

- **Acute toxicity - dermal**
  - Notes (dermal LD₅₀): LD₅₀ >5050 mg/kg, , Rabbit

- **Acute toxicity - inhalation**
  - Notes (inhalation LC₅₀): LC₅₀ > 2.38 mg/l, , Rat

- **Skin corrosion/irritation**
  - Animal data: Slightly irritating. (Rabbit)

- **Serious eye damage/irritation**
  - Based on available data the classification criteria are not met.

- **Respiratory sensitisation**
  - Based on available data the classification criteria are not met.
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Skin sensitisation
Based on available data the classification criteria are not met.

Germ cell mutagenicity
Genotoxicity - in vitro
Based on available data the classification criteria are not met.

Carcinogenicity
Carcinogenicity
Based on available data the classification criteria are not met.

IARC carcinogenicity
None of the ingredients are listed or exempt.

Reproductive toxicity
Reproductive toxicity - fertility
Based on available data the classification criteria are not met.

Reproductive toxicity - development
Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure
STOT - single exposure
May cause respiratory irritation

Specific target organ toxicity - repeated exposure
STOT - repeated exposure
Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard
Aspiration hazard
Based on available data the classification criteria are not met.

General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
A single exposure may cause the following adverse effects: Headache. Exhaustion and weakness.

Skin Contact
Redness. Irritating to skin.

Eye contact
No specific symptoms known.

Route of entry
Ingestion Inhalation Skin and/or eye contact

Target Organs
Respiratory system, lungs

SECTION 12: Ecological Information

Toxicity
Aquatic Acute 1 - H400 Very toxic to aquatic life.

Acute toxicity - fish
LC₅₀, 96 hours: 4.26 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates
EC₅₀, 48 hours: 0.38 mg/l, Daphnia magna

Persistence and degradability
The degradability of the product is not known.

Bioaccumulative potential
No data available on bioaccumulation.

Mobility in soil
No data available.

Results of PBT and vPvB assessment
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Other adverse effects
None known.

SECTION 13: Disposal considerations

Waste treatment methods

General information
The generation of waste should be minimised or avoided wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods
Triple or preferably pressure rinse containers before disposal. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.
If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

SECTION 14: Transport information

General
Not a dangerous good according to ADG code 7

UN number
3082

UN proper shipping name
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (s-Methoprene)

Transport hazard class(es)
9

Packing group
III

Environmental hazards

Special precautions for user

SECTION 15: Regulatory information

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

Inventories
Australia - AICS
Not applicable

SECTION 16: Any other relevant information

Training advice
Only trained personnel should use this material.

Revision date
12/12/2016

Revision
2

Supersedes date
12/12/2016
s-Methoprene TG

SDS No. 4788

Hazard statements in full
H315 Causes skin irritation.
H400 Very toxic to aquatic life.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.