

Cyphenothrin Technical Grade

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Cyphenothrin Technical Grade

Gokilaht TG Other Names:

Recommended Use: A raw synthetic material used for the manufacture and

preparation of insecticidal products for use by professionals and

householders/domestic.

Company: Sumitomo Chemical Australia Pty Ltd

A.B.N. 21 081 096 255

Address: 242 Beecroft Road, EPPING NSW 2121 **Telephone Number:** (02) 8752 9000 (Mon-Fri 8am-5pm EST)

Emergency Telephone Number: 1800 024 973 (24 hours) (EMERGENCIES ONLY)

Website: www.sumitomo-chem.com.au

SECTION 2: HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to the criteria of the Australian Safety and Compensation

Council (ASCC).

Risk Phrases: Xn:

R20/22 - Harmful by inhalation and if swallowed.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Safety Phrases: S23 – Do not breathe fumes or vapour.

> S24 – Avoid contact with skin. S25 – Avoid contact with eyes.

SUSDP Classification

(Poison Scheduling): S6 - POISON

ADG Classification: Not classified as a Dangerous Good (under the Australian Code for the

Transport of Dangerous Goods by Road and Rail (ADG Code).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	CAS number	Proportion
Cyphenothrin	39515-40-7	≥92%
Other ingredients determined as non hazardous	-	to 100%

SECTION 4: FIRST AID MEASURES

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

General: In case of accident or if you feel unwell, seek medical advice immediately

(show label where possible).

Swallowed: If swallowed, do not induce vomiting. Wash mouth with water. Give water to

drink. Seek medical advice.

Skin contact: If on skin, remove contaminated clothing and wash skin thoroughly with soap

and water. Launder contaminated clothing before re-use. Seek medical

advice if irritation develops.

Eye contact: If in eyes, hold eyes open and flood with water for at least 15 minutes and

seek medical advice.

Inhalation: If affected, remove from contaminated area to fresh air. If any signs or

symptoms occur or persist, seek medical advice.

Note to physician: Apply basic aid and decontamination procedures. Treat symptomatically.

Synthetic pyrethroids can produce parasthesias.

SECTION 5: FIRE FIGHTING MEASURES

Flashpoint: 130°C (Pensky-Martens closed cup)

Flammable limits: NDA Auto-ignition temperature: 340°C

Suitable Extinguishing Media: Small fire: Use dry chemical, carbon dioxide or water spray.

Large fire: Use water spray, fog or foam – Do not use water jets.

Hazards from Combustion Products:

Precautions for Fire Fighting and Special Protective

Equipment:

Thermal decomposition will produce CO, NOx and HCN.

Ensure respiratory equipment is available. Evacuate immediate area. Advise Fire Brigade of nature of hazard. Wear full protective equipment, including breathing apparatus. Surrounding containers should be cooled

using a fine water spray. All run-off must be contained.

Hazchem Code: 2X

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Telephone Number: 1800 024 973 (24 hours) (EMERGENCIES ONLY)

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP PROCEDURES

SPILLS

Stop the source of the spill if it is safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. Wear personal protective equipment as specified in Section 8. Do not allow material to enter sewers or bodies of water.

Small Spills: Apply absorbent inert material such as soil, dry sand or vermiculite to the

(Liquid spill) spill area. Sweep up material when absorption is complete and contain in a refuse vessel for disposal. If necessary, wash the spill area with an

alkali detergent and water and absorb and contain as above.

Large Spills: Place leaking containers into salvage drums. Apply absorbent inert

(Liquid Spill) material such as soil, dry sand or vermiculite to the spill area. Form a barricade around spill and in front of drains or waterways in spill vicinity,

using soil or other non reactive material. Sweep up material and contain in a refuse vessel for disposal. **Contact emergency services as**

required.

Disposal: Contaminated material must be disposed of in accordance with all State

and/or Local regulations.

SECTION 7: HANDLING AND STORAGE

Precautions forDO NOT USE OR STORE near flame, sparks or hot surfaces. Use only in well ventilated area. Keep container closed. Keep out of reach of

in well ventilated area. Keep container closed. Keep out of reach of children, unauthorised persons and animals. After handling and before eating, drinking or smoking, wash hands, arms and face with soap and

water. For personal protection, see Section 8.

Conditions forKeep out of reach of children, unauthorised persons and animals. Store in the closed, original container in a dry, cool, well ventilated area, out of

the closed, original container in a dry, cool, well ventilated area, out of direct sunlight. Do not store near food, feedstuffs, fertiliser or seed. Store

at ambient temperatures.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS

Australian Safety and Compensation Council (ASCC) exposure standards have not been assigned for the active ingredient.

ENGINEERING CONTROLS

Provide adequate ventilation. Keep container tightly closed.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use only in well ventilated areas. Respiratory protection is

recommended.

Hand Protection: Wear chemical resistant gloves.

Eye Protection: Avoid contact with eyes. Eye contact can be avoided by wearing

protective eyewear.

Skin and Body Protection: Avoid contact with skin or clothing. Skin contact should be minimised by

wearing protective clothing including gloves, long sleeved shirt, long

pants and chemical resistant boots.

Other Information: Wash hands after use. Launder clothes, gloves and face shield or

goggles before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow viscous liquid. **Odour:** Faint characteristic odour.

pH: 5.4

Vapour Pressure: 0.116 mPa (20°C)

Vapour Density: NDA
Boiling Point: 154°C
Melting Point: NA

Solubility in water: $9.01 \pm 0.8 \,\mu\text{g/L} (25^{\circ}\text{C})$

Solubility in other solvents: In hexane 4.84, methanol 9.27 (both in g/100g, 20°C)

Density: 1.08 g/mL (25°C) **Viscosity:** 3400 cps (20°C)

Flashpoint: 130°C (Pensky-Martens closed cup)

Explosive Limits: NDA Ignition Temperature: 340°C

Octanol/Water Partition

Coefficient: Log Pow = 6.29

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage and handling conditions (See Section

7). Unstable in light, particularly UV light.

Conditions to Avoid: Avoid direct sunlight. Isolate from sources of heat, naked flames or

sparks.

Incompatible Materials: Alkaline materials and oxidizing materials.

Hazardous Decomposition

Products: Emits toxic fumes under fire conditions (See also Section 5).

Hazardous Reactions: NDA

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Toxicology

Swallowed: MODERATELY TOXIC TO TOXIC.

 $(LD_{50} \text{ (male rat)} = 318 \text{ mg/kg})$ $(LD_{50} \text{ (female rat)} = 419 \text{ mg/kg})$

Accidental ingestion of small amounts is likely to be harmful.

Skin: NOT HARMFUL.

 $(LD_{50} (rat) > 5000 mg/kg)$

Inhalation: MODERATELY TOXIC.

 $(LC_{50} \text{ rat (3 hour)} > 1.85 \text{ mg/L of air)}$

(maximum attainable concentration, using an artificially produced mist)

Inhalation may be harmful.

<u>Irritation</u>

Skin: NON-IRRITANT.

Eye: SLIGHT IRRITANT.

Sensitisation

Skin: NOT A SKIN SENSITISER.

CHRONIC/CARCINOGENIC HEALTH EFFECTS

Not carcinogenic.

OTHER TOXICOLOGICAL INFORMATION

Mutagenicity Information

Not mutagenic.

Teratology (Birth Defects) Information

Not teratogenic.

Reproduction Information

Not genotoxic.

SECTION 12: ECOLOGICAL INFORMATION

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

Highly toxic to fish: LC_{50} Rainbow trout (96 hour) = 0.34 μ g/L

Highly toxic to aquatic

invertebrates: EC_{50} Daphnia magna (48 hour) = 0.43 µg/L Low toxicity to birds: Dietary LC_{50} Bobwhite quail > 5620 ppm

ENVIRONMENTAL FATE

Soil/Environment: Degradation involves ester hydrolysis and oxidation.

SECTION 13: DISPOSAL CONSIDERATIONS

This material must be disposed of as a hazardous waste. Disposal should be in accordance with local, national or state regulations.

ContaminatedBreak, crush or puncture and bury empty containers in a local authority Packaging:

landfill. If no landfill is available, bury the containers below 500mm in a

landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and

product should not be burnt.

SECTION 14: TRANSPORT INFORMATION

Road/Rail Not classified as a Dangerous Good (under the Australian Code for the

Transport of Dangerous Goods by Road and Rail (ADG Code)

Sea/Air Classified as dangerous in the meaning of Sea (IMDG) and Air (ICAO/IATA)

transport regulations.

Proper Shipping Name: Environmentally Hazardous Substance, Liquid N.O.S. (Cyphenothrin)

Class: 9

Sub Risk Class: Not applicable

UN Number: 3082

Hazchem Code:
Packing Group: |||

SECTION 15: REGULATORY INFORMATION

Registration Status: The active ingredient is registered with the Australian Pesticides and

Veterinary Medicines Authority (APVMA) and is also a known substance in

New Zealand (HSNO Act).

SECTION 16: OTHER INFORMATION

Abbreviations:

NA Not Applicable
NDA No Data Available
Revision Date: 21 January 2010

Revision Number: 6

THE INFORMATION GIVEN IN THIS MSDS IS BASED ON DATA AVAILABLE AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. EACH USER SHOULD READ THIS MSDS AND CONSIDER THE INFORMATION IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE INCLUDING IN CONJUNCTION WITH OTHER PRODUCTS. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY.