

MATERIAL SAFETY DATA SHEET

Statement of Hazardous Nature:

Hazardous according to criteria of Worksafe Australia. R65 - Harmful: May cause lung damage if swallowed

Company: Sumitomo Chemical Australia Pty Ltd
Address: 501 Victoria Avenue, Chatswood NSW 2067
Telephone Number: (02) 9904 6499
Emergency Telephone Number: 1800 024 973

IDENTIFICATION

Product Name: Sumitomo Sumi-alpha Flex Insecticide
Correct Shipping Name: pesticide, liquid, toxic, N.O.S.
Other names: Esfenvalerate
UN Number: 2902
Hazchem Code: 2X
Dangerous Goods Class; 6.1
Poison Schedule: S6
Manufacturer's Product Code: none
Use: Synthetic pyrethroid insecticide

Physical Description/Properties

Form: Liquid
Colour: clear and bright amber
Melting point (° C): < 0
Boiling point (° C): 140 approx.
Relative Density: 0.884
Vapour Density at 15 ° C: 4.49 kgm⁻³
Vapour Pressure at 15 ° C: 0.5-0.7 kPa
Solubility in water (at 20 ° C): emulsifiable
pH value: not determined
Flash Point ° C: 100
Auto ignition ° C: 495
LEL: 1.1% v/v
UEL: 7.7% v/v

Other Properties

Chemical Characterisation: **Chemical group:** synthetic pyrethroid

Ingredients

Chemical entity	CAS number	Proportion
esfenvalerate	66230-04-4	min 5%
Hydrocarbon solvent	-	74%
Other Ingredients determined not to be hazardous	-	to 100 %

HEALTH HAZARD INFORMATION

Health Effects

(For active ingredient)

Oral LD ₅₀ rats:	88.5 mg/kg (male), 88.5 mg/kg (female)
Dermal LD ₅₀ rat:	> 5000 mg/kg (male), > 5000 mg/kg (female)
Irritation of the skin (rabbit):	non-irritant
Sensitisation:	not a sensitiser
Eye irritation:	not an irritant
Inhalation:	480 (male) mg/m ³ , 570 (male) mg/m ³

First Aid

Swallowed:	If poisoning occurs, contact a contact a doctor or Poisons Information Centre (TEL: 131126) as soon as possible.
Skin:	If skin contact occurs, remove contaminated clothing and wash skin thoroughly.
Eyes:	Irrigate eyes immediately with water for 15 minutes. Consult a doctor.
Inhaled:	Remove patient to fresh air. Keep patient rested and warm. If symptoms persist consult a doctor.

Advice to Doctor

Sumi-alpha Flex contains esfenvalerate, a synthetic pyrethroid, which following ingestion, inhalation or skin contact can be absorbed into the bloodstream causing effects such as transient skin sensations (tingling, burning, numbness). Keep under observation and treat symptomatically. If indicated, lavage with cuffed tube. The main hazard is aspiration of the solvent into the lungs resulting in chemical pneumonitis.

PRECAUTIONS FOR USE

Exposure Standards

NOHSC exposure standards have not been assigned for the active ingredient.

Engineering Control

Do not inhale mist.

Personal Protective Measures

May irritate the eyes and skin. Facial skin contact may cause temporary facial numbness. Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves and face shield. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash contaminated clothing, gloves and face shield.

Flammability

Not flammable.

SAFE HANDLING INFORMATION

Storage and Transport

Storage

Keep out of the reach of children. Store in the closed, original container in a well-ventilated area and cool as possible, separate building or room away from children, animals and unauthorised persons. Store away from food, foodstuffs, drink or clothing. Store separately from herbicides. Do not store for long periods in direct sunlight.

Isolate from sources of heat, naked flames or sparks.

Ensure containers are correctly labelled and securely sealed. Classified as a dangerous substance for transport purposes.

Eye-wash and washing facilities must be readily available. For decontaminating clothing and equipment have soda ash (sodium carbonate) on hand and for decontaminating the disposing spills have lime, soda ash, absorbent material and open head drums on hand.

Transport

Classification according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code):

Shipping name: pesticide, liquid, toxic, N.O.S.

Packing group: III **UNNO:** 2902

DG Class: 6.1 **Sub Risk:** None

Hazchem: 2X

Dangerous Goods / Hazardous Substances Regulation

This product is subject to the following regulations:

- Australia Code for the Transport of Dangerous Goods by Road and Rail
- State/Territory Storage of Dangerous Goods Regulations
- State/Territory Hazard Substances Regulations
- Standard for the Uniform Scheduling of Drugs and Poisons

Spills and Disposals

Clear area of all unprotected personnel. Wear full protective equipment including breathing apparatus. Stop leak if safe to do so by manoeuvring the container. Decant leaking container into a clean empty drum remote from the storage area and label. If the leaking container can be repacked, contact Sumitomo Chemical Australia Pty Ltd so that an overdrum and transport for return to a nominated Sumitomo location can be arranged.

Do not flush to drains or sewers. Do not contaminate streams, rivers or watercourses.

Absorb spill in lime or wet area with 5% soda ash (sodium carbonate) solution and absorb on sand, earth or non-combustible absorbent material. Place material in open top drum, clean up with small amount of detergent and water, absorb and place in drum. Scatter lime over the area and leave for one (1) hour. Decompose contaminated absorbent and surplus material with 5% soda ash solution. Leave in safe place for one month. Seal drum and bury in an area approved by the local waste disposal authority.

Soak protective equipment in 5% soda ash for 24 hours. Rinse and dry. Wash overalls.

Triple rinse empty container with water. Add the rinsate to the spray vat or dispose of with empty container. Puncture top, bottom and sides of empty container, then crush and take to an approved landfill or bury under at least 500mm of soil in a non-crop, non-pasture area away from water sources or homes.

Fire/Explosion Hazards

Dangerous decomposition or Combustion Products

Explosive air-vapour mixture may form. Decomposition may give rise to toxic and noxious fumes. Alcohol resistant foam, carbon dioxide or dry chemical extinguishers required. Ensure respiratory equipment is available.

Evacuate immediate area. Advise Fire Brigade of nature of hazard. Wear full protective equipment, including breathing apparatus. Remove drums from site of fire, if possible, as overheating may cause some of the drums to explode. Cool surrounding containers with a fine water spray.

Avoid contact of water as toxic run-off will form. In this event, consideration should be given to allowing the fire to burn out. Contain run-off.

OTHER INFORMATION

Protection of Livestock

Dangerous to bees. Do NOT spray on any plants in flower while bees are foraging.

Protection of Wildlife, Fish, Crustacea and Environment

Dangerous to fish. Do NOT contaminate ponds, waterways and drains with Sumi-alpha Flex Insecticide or used containers.

CONTACT POINT (for non-emergency calls)

Sumitomo Chemical Australia Pty Ltd

Telephone Number: (02) 9904 6499

FOR EMERGENCY CALLS – AUSTRALIA WIDE 1800 024 973