



Safety Data Sheet

SDS No.:
SDS-P/EC-S/04

Sumi-Alpha 28

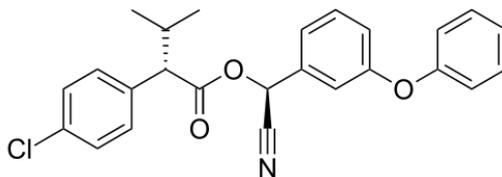
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Section 1: Identification of the Hazardous Chemical and of the Supplier

1.1 Product Identifier

Product Name: Esfenvalerate 2.8% EC
Trade Name: Sumi-Alpha 28
Active Ingredient: (S)-cyano (3-phenoxyphenyl) methyl-(S)-4-chloro-alpha-(1-methylethyl) benzene acetate
CAS No.(AI): 66230-04-4
Structural Formula:



Recommended Usage: Insecticide

1.2 Supplier's Information

Address: Agricultural Chemicals (M) Sdn. Bhd.
962, Lorong Perusahaan 8
Taman Perindustrian Perai
13600 Perai , Pulau Pinang
Malaysia
Tel.: +6-04-3907988
Fax: +6-04-3905703
Web: www.agrichem.com.my
Emergency Phone: +6-04-3907988

Section 2: Hazard Identification

Classification: Flammable liquid category 3
Acute toxicity, inhalation category 4
Skin irritaion category 2
Eye irritation category 2
Skin sensitization category 1
Specific target organ toxicity – single exposure category 3
Acute aquatic toxicity category 1
Chronic aquatic toxicity category 1

Pictogram:





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Signal Word: Warning

Hazard Statement:

H226	Flammable liquid and vapour
H332	Harmful if inhaled
H315	Causes skin irritation
H319	Causes serious eye irritation
H317	May cause allergic skin reaction
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statement:

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P233	Keep container tightly closed.
P271	Use only outdoors or in a well ventilated area.
P264	Wash exposed body parts thoroughly after handling.
P280	Wear nitrile gloves, protective clothing, safety goggles and face protection.
P273	Avoid release to the environment.

Section 3: Composition and Information of the Ingredients of the Hazardous Chemical

Component	CAS No.	Weight, %	Hazard Code
Esfenvalerate	66230-04-4	2.5%	H301, H330, H317, H400, H410
Surfactant	-	< 10%	H226
Solvent	-	Balance	H332, H315, H319, H335

Section 4: First-aid Measures

Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion:	DO NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.



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Symptoms: Muscular fibrillation, tremor, ataxia, limb paralysis, irregular respiration, salivation, urinary incontinence, hyperexcitability, choreoathetotic syndrome and decrease of spontaneous activity.

Notes to Physician: Treatment is symptomatic

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Carbon dioxide (CO₂), chemical foam, dry chemical, aqueous film forming foam

Specific Hazard During Fire: Evolves toxic and corrosive gases such as NO_x, HCl, HCN, CO_x.

Special Protective Equipment: Fire fighters should wear full-faced self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

Personal Precautions: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Environmental Precautions: Avoid release to the environment.

Method for Cleaning Up: Wear protective clothing as indicated in Section 8. Evacuate non essential personnel. Absorb spills with inert material such as clay, sand, earth, sawdust etc. and collect in a drum. Cover up the contaminated area with household detergent and small amount of water. Brush the slurry and spread inert absorbents on the slurry liquid and collect the absorbed material in a drum. Seal drum and dispose of. Do not contaminate water resources.

Section 7: Handling and Storage

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe vapours. Do not eat, drink or smoke when using this product. Avoid release to the environment.

Conditions for Safe Storage: Store in a well ventilated place. Keep away from heat/sparks/open flames/hot surfaces - No smoking. Keep container tightly closed.

Incompatibles: Incompatible with strong oxidizing agents and alkaline materials.



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Section 8: Exposure Control and Personal Protection

Exposure Limit:

Source	Component	CAS No.	Limit	
ACGIH	Trimethyl benzene – a component in Solvent	95-63-6	TWA	25ppm

Engineering Control: Local exhaust ventilation

Individual Protection Measure: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe vapours. Wash exposed body parts thoroughly after handling.

Personal Protective Equipment:

Eye Protection: Protective goggles

Skin Protection: Face shield, nitrile gloves and boots

Respiratory Protection: Respirator

Section 9: Physical and Chemical Properties

Appearance: Brown yellowish liquid
Odour: Characteristic odour
Odour Threshold: No data
pH: 3 - 7 (10% Emulsion)
Melting/Freezing Point: No data
Initial Boiling Point: No data
Boiling Range: No data
Flash Point: 60°C
Evaporation Rate: No data
Flammability: Flammable liquid
Upper Flammability Limit: No data
Lower Flammability Limit: No data
Vapour Pressure: No data
Vapour Density: No data
Relative Density: 0.9
Solubility in Water: Miscible with water
Partition Coefficient $P_{o/w}$: 5 (Esfenvalerate)
Auto-ignition Temperature: No data
Decomposition Temperature: No data
Viscosity: No data

Section 10: Stability and Reactivity

Reactivity: Combustion evolves toxic and corrosive gases such as NO_x , HCl, HCN, CO_x .



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Chemical Stability:	The material is stable under normal storage condition
Hazardous Reaction:	No data
Condition to Avoid:	Direct sunlight, heat and extreme temperature
Incompatible Material:	Incompatible with strong oxidizing agents and alkaline materials.
Hazardous Decomposition Product:	No data

Section 11: Toxicological Information

11.1 Acute Toxicity

Component: Esfenvalerate		
Ingestion, Oral LD ₅₀ :		
	Rat	88.5mg/kg
Skin contact, Dermal LD ₅₀ :		
	Rabbit	> 2000mg/kg
Inhalation, LC ₅₀ :		
	Rat, male	0.48mg/L
	Rat, female	0.57mg/L

11.2 Chronic Effect from Short and Long Term Exposure

Skin Contact:	Causes skin irritation, may cause allergic skin reaction.
Eye Contact:	Causes serious eye irritation
Inhalation:	May cause respiratory irritation
Ingestion:	No data available
Carcinogenicity:	No data available
Mutagenicity:	No data available
Teratogenicity:	No data available

11.3 Symptoms

Muscular fibrillation, tremor, ataxia, limb paralysis, irregular respiration, salivation, urinary incontinence, hyperexcitability, choreoathetotic syndrome and decrease of spontaneous activity.

Section 12: Ecological Information

Ecotoxicity:

Component: Esfenvalerate		
Acute Toxicity:		
	Fish, <i>Lepomis macrochirus</i> , LC ₅₀ , 96hr	0.31µg/L
	<i>Daphnia magna</i> (water flea), LC ₅₀ , 48hr	0.27µg/L

Persistence and Degradability: No data available

Bioaccumulative Potential:

Component: Esfenvalerate

Cyprinus carpio (Carp), 30d 0.36µg/L

Bioconcentration factor (BCF) 117



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Mobility in Soil: No data available
Other Adverse Effect: No data available

Section 13: Disposal Information

Dispose of contents/container to Kualiti Alam / authorized body by DOE.

Section 14: Transportation Information

Land (ADR/RID)

Proper Shipping Name	Pesticide, Liquid, Toxic, Flammable, N.O.S. flashpoint not less than 23°C
Hazard Class	6.1
Hazchem Code	-
UN number	2903
Packing Group	III
Label/Mark	6(3)

Sea (IMDG)

Proper Shipping Name	Pesticide, Liquid, Toxic, Flammable, N.O.S. flashpoint not less than 23°C
Hazard Class	6.1
UN Number	2903
Packing Group	III
Marine Pollutant	-
Label	6(3)
Transport Document Name	-

Air (IATA)

Proper Shipping Name	Pesticide, Liquid, Toxic, Flammable, N.O.S. flashpoint not less than 23°C
Hazard Class	6.1
UN number	2903
Packing Group	III
Label/Mark	6(3)
Transport Document Name	-

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Section 15: Regulatory Information

Classification: Flammable liquid category 3
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 Skin irritation category 2
 Eye irritation category 2
 Skin sensitization category 1
 Specific target organ toxicity – single exposure category 3
 Acute aquatic toxicity category 1
 Chronic aquatic toxicity category 1

Signal Word: Warning

Pictogram:



Pesticides Act: Class III
Classification: Harmful

Section 16: Other Information

Date of Preparation: 8 October 2015
Date of Revision: -
Reference Document: ICOP on Chemicals Classification and Hazard Communication 2014
 GHS Purple Book
 MSDS

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.