

SAFETY DATA SHEET



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Issue date: 19-May-2017

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: SUMIFLY BUFFALO FLY INSECTICIDE

Trade Name: Sumifly
Chemical Family: Pyrethroid

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Veterinary product used as insecticide
Restrictions on Use: Not for human use

Details of the Supplier of the Safety Data Sheet

Zoetis Australia Pty Ltd
ABN 94 156 476 425
Level 6, 5 Rider Boulevard
Rhodes NSW 2138 AUSTRALIA
(02) 8876 0444

Emergency Phone: 1800 814 883 (all hours)
Police and Fire Brigade: 000
Poisons Information Centre: 13 11 26

Product Support/Technical Services Phone: 1800 814 883
Contact E-Mail: australia.animalhealth@zoetis.com

2. HAZARDS IDENTIFICATION

Appearance: Amber colored liquid

Classification of the Substance or Mixture

GHS - Classification

Aspiration Toxicity: Category 1
Acute Oral Toxicity: Category 4
Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2A
Germ Cell Mutagenicity: Category 1B
Carcinogenicity: Category 1B
Specific target organ systemic toxicity (single exposure): Category 1
Specific target organ systemic toxicity (repeated exposure): Category 1
Acute aquatic toxicity: Category 1
Chronic aquatic toxicity: Category 1
Flammable liquids- Category 3

Label Elements

Signal Word: Danger

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2. HAZARDS IDENTIFICATION

Hazard Statements:

H304 - May be fatal if swallowed and enters airways
H226 - Flammable liquid and vapor
H319 - Causes serious eye irritation
H315 - Causes skin irritation
H302 - Harmful if swallowed
H340 - May cause genetic defects
H350 - May cause cancer
H370 - Causes damage to organs (central nervous system, peripheral nervous system)
H372 - Causes damage to organs through prolonged or repeated exposure
(central nervous system , peripheral nervous system)
H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements:

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233 - Keep container tightly closed
P240 - Ground/Bond container and receiving equipment
P241 - Use explosion-proof electrical/ventilating/lighting/equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P273 - Avoid release to the environment
P370 + P378 - In case of fire: Use dry chemical, CO2, foam or water spray for extinction
P308 + P313 - IF exposed or concerned: Get medical attention/advice
P314 - Get medical attention/advice if you feel unwell
P301+ P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician
P331 - Do NOT induce vomiting
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention
P391 - Collect spillage
P403 + P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container in accordance with all local and national regulations



Other Hazards

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Short Term: May cause lung damage if swallowed. Vomiting of petroleum-containing liquids can result in chemical pneumonitis. Causes eye irritation. Signs and symptoms might include redness, swelling, blurred vision or pain. Causes skin irritation. Signs and symptoms might include skin rash, itching, redness or swelling. Central nervous system effects such as headache, dizziness, drowsiness, fatigue, and lack of muscular coordination can also occur.

Long Term: May cause effects on nervous system through prolonged or repeated exposure.

Known Clinical Effects: Pyrethroids can cause seizures and paresthesia (i.e. stinging, burning, itching, tingling, and numbness) of the face, hands, arms, forearms, and neck which may be worsened by contact with moisture and water. Other signs and symptoms of exposure include dizziness, salivation, headache, fatigue, vomiting, diarrhea, and irritability to sound and touch. Pyrethroids may cause sensitization and allergic reactions. Effects may be immediate or delayed.

Australian Hazard Classification (NOHSC): Hazardous Substance. Dangerous Goods.

Note: This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number		GHS Classification	%
PETROLEUM SOLVENT (C8-C10)	64742-95-6		Muta. 1B (H340) Carc. 1B (H350) Aspir. Cat 1 (H304)	60
Fenvalerate	51630-58-1		STOT SE 1 (H370) STOT RE 1 (H372) Acute Aq. 1 (H400) Chronic Aq. 1 (H410) Acute Tox 3 (H301) Eye Irrit. 2A (H319) Skin Irrit. 2 (H315)	20

Additional Information: Ingredient(s) indicated as hazardous have been assessed under standards for workplace

4. FIRST AID MEASURES

Description of First Aid Measures

Eye Contact: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.

Ingestion: In the event of swallowing this material, seek immediate medical attention. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

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Symptoms and Effects of Exposure: For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.
Medical Conditions Aggravated by Exposure: None known

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: This material contains pyrethrin insecticides. In cases of overexposure, consult a poison control center for additional information concerning pyrethrin poisoning and treatment.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Products: Formation of toxic gases is possible during heating or fire.

Fire / Explosion Hazards: Flammable liquid. May present a fire hazard under fire conditions. Vapors will form flammable or explosive mixtures with air at room temperature. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

In use, may form flammable/explosive vapour-air mixture. Move containers of this material from fire area. Extinguish and isolate from other flammable materials. During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Eliminate all sources of ignition and ventilate area using explosion-proof equipment. Ground and bond containers when transferring material. Ensure adequate ventilation. Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Collecting: Contain the source of the spill if it is safe to do so. Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity). Absorb spills with non-combustible absorbent material and transfer into a labeled container for disposal. Prevent discharge to drains.

Additional Consideration for Large Spills: Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel. Contain the source of the spill or leak if it is safe to do so. Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding procedures. Collect spill with a non-combustible absorbent material and transfer to labeled container for disposal. Prevent runoff from entering waterways or sewers. Prevent discharge to drains.

Additional Information: Avoid inhalation and direct contact. Wear appropriate personal protective equipment during all clean-up activities. Prevent discharge to sewage systems and waterways.

7. HANDLING AND STORAGE

Precautions for Safe Handling

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7. HANDLING AND STORAGE

Flammable. Flammable liquid and vapor- keep away from ignition sources and clean up spills promptly. Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding and bonding procedures. Avoid contact with eyes, skin, and clothing. Use appropriate personal protective equipment. Wash thoroughly after handling. Use with adequate ventilation. Avoid breathing vapor or mist. Prevent environmental releases. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Keep containers tightly closed in a cool, well-ventilated place . Keep away from heat, sparks, flame, and other sources of ignition. Store away from direct sunlight. Keep out of reach of children.

Storage Temperature: Store below 30°C

Specific end use(s): Veterinary insecticide

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

Fenvalerate

Zoetis OEB OEB 2 (control exposure to the range of 100ug/m³ to < 1000ug/m³)

Exposure Controls

Engineering Controls: Engineering controls should be used as the primary means to control exposures. Keep air contamination levels below the exposure limits or within the OEB range listed above in this section.

Personal Protective Equipment: Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

Hands: Wear impervious gloves if skin contact is possible.

Eyes: Wear safety goggles as minimum protection (face shield recommended if splashing is possible).

Skin: Wear impervious protective clothing to prevent skin contact - consider use of disposable clothing where appropriate.

Respiratory protection: Whenever air contamination (mist, vapor or odor) is generated, respiratory protection is recommended as a precaution to minimize exposure. If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear an appropriate respirator with a protection factor sufficient to control exposures to the bottom of the OEB range.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Color:	Amber
Odor:	Mild Solvent	Odor Threshold:	No data available.
Molecular Formula:	Mixture	Molecular Weight:	Mixture
Solvent Solubility:	No data available		
Water Solubility:	Emulsifiable		
pH:	No data available.		
Melting/Freezing Point (°C):	No data available		
Boiling Point (°C):	No data available.		

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9. PHYSICAL AND CHEMICAL PROPERTIES

Partition Coefficient: (Method, pH, Endpoint, Value)

No data available

Decomposition Temperature (°C): No data available.

Evaporation Rate (Gram/s): No data available

Vapor Pressure (kPa): No data available

Vapor Density (g/ml): No data available

Relative Density: No data available

Specific Gravity: 0.925

Viscosity: No data available

Flammability:

Autoignition Temperature (Solid) (°C): No data available

Flammability (Solids): No data available

Flash Point (Liquid) (°C): 43

Upper Explosive Limits (Liquid) (% by Vol.): No data available

Lower Explosive Limits (Liquid) (% by Vol.): No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

Possibility of Hazardous Reactions

Oxidizing Properties: No data available

Conditions to Avoid: Avoid contact with strong oxidizers, such as bleach, direct sunlight, excessive heat, spark, or open flame. Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electrostatic discharge). Fine particles (such as dusts, mists and vapors) may fuel fires/explosions.

Incompatible Materials: As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition Products: Toxic fumes of carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen chloride and other chlorine-containing compounds may be emitted.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information: Toxicological properties of the formulation have not been investigated. The information in this section describes the potential hazards of the individual ingredients and the formulation.
Routes of exposure: eye contact , skin contact , inhalation

Acute Toxicity: (Species, Route, End Point, Dose)

Fenvalerate

Rat Oral LD50 300 mg/kg

Rabbit Dermal LD50 > 5000mg/kg

Ingestion Acute Toxicity Harmful if swallowed. May cause lung damage if swallowed. Vomiting of petroleum-containing liquids can result in chemical pneumonitis.

Irritation / Sensitization: (Study Type, Species, Severity)

Fenvalerate

Eye Irritation Rabbit Irritant

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11. TOXICOLOGICAL INFORMATION

Skin Irritation Rabbit Irritant
Skin Sensitization Guinea Pig Negative

Irritation / Sensitization Comments: May cause eye irritation.
Skin Irritation / Sensitization May cause skin irritation. Contact dermatitis and allergic respiratory reactions (rhinitis and asthma) have been reported following administration of pyrethrins.

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Fenvalerate

13 Week(s)	Rat	Oral	7.5 mg/kg/day	LOAEL	Central nervous system
6 Month(s)	Dog	Oral	6.75 mg/kg/day	NOAEL	Central Nervous System
1 Year(s)	Dog	Oral	5 mg/kg/day	NOAEL	None identified

Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Fenvalerate

Fertility and Embryonic Development	Rat	Oral	250 mg/kg/day	NOAEL	No effects at maximum dose
Embryo / Fetal Development	Mouse	Oral	50 mg/kg/day	NOAEL	Not Teratogenic
Embryo / Fetal Development	Rat	Oral	50 mg/kg/day	NOAEL	Not Teratogenic

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Fenvalerate

Bacterial Mutagenicity (Ames)	<i>Salmonella</i>	Negative
Chromosome Aberration	Hamster Bone Marrow	Negative
Dominant Lethal Assay	Mouse	Negative

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Fenvalerate

2 Year(s)	Mouse	Oral	3000 mg/kg/day	NOAEL	Not carcinogenic
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Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

Fenvalerate

IARC: Group 3 (Not Classifiable)

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12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties of the formulation have not been investigated. The following information is available for the individual ingredients. Releases to the environment should be avoided.

Toxicity:

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Fenvalerate

<i>Daphnia magna</i> (Water Flea)	LC50	48 Hours	0.0043 mg/L
<i>Pimephales promelas</i> (Fathead Minnow)	LC50	96 Hours	0.42 mg/L
<i>Oncorhynchus mykiss</i> (Rainbow Trout)	LC50	96 Hours	0.00054 mg/L
<i>Lepomis macrochirus</i> (Bluegill Sunfish)	LC50	96 Hours	0.00042 mg/L

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Should not be released into the environment. Dispose of waste in accordance with all applicable laws and regulations. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

This material is regulated for transportation as a hazardous material/dangerous good.

UN number:	UN 1993
UN proper shipping name:	Flammable Liquid, n.o.s. (petroleum solvent)
Transport hazard class(es):	3
Packing group:	III
Environmental Hazard(s):	Marine Pollutant

Flash Point (°C): 43

Marine pollutant requirements apply only to quantities >5 Liters for liquids / >5 Kilograms for solids (per inner package) when shipped as per IMDG or ADR (effective year 2015 or greater) regulations. Please refer to the applicable dangerous goods regulations for additional information. Transport according to the requirements of the appropriate regulatory body.

Flash Point (°C): 43

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15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

PETROLEUM SOLVENT (C8-C10)

CERCLA/SARA 313 Emission reporting	Not Listed
Australia (AICS):	Present
REACH - Annex XVII - Restrictions on Certain Dangerous Substances:	Use restricted. See item 28.
REACH - Carcinogens Category 2:	Present
REACH - Mutagens Category 2:	Present

Fenvalerate

CERCLA/SARA 313 Emission reporting	1.0 %
Australia (AICS):	Present
Standard for the Uniform Scheduling for Drugs and Poisons:	Schedule 6
APVMA Number:	47343

16. OTHER INFORMATION

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

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Germ cell mutagenicity-Cat.1B; H340 - May cause genetic defects
Carcinogenicity-Cat.1B; H350 - May cause cancer
Aspiration hazard-Cat.1; H304 - May be fatal if swallowed and enters airways
Hazardous to the aquatic environment, acute toxicity-Cat.1; H400 - Very toxic to aquatic life
Hazardous to the aquatic environment, chronic toxicity-Cat.1; H410 - Very toxic to aquatic life with long lasting effects
Specific target organ toxicity, single exposure-Cat.1; H370 - Causes damage to organs
Specific target organ toxicity, repeated exposure-Cat.1; H372 - Causes damage to organs through prolonged or repeated exposure
Acute toxicity, oral-Cat.3; H301 - Toxic if swallowed
Serious eye damage/eye irritation-Cat.2A; H319 - Causes serious eye irritation
Skin corrosion/irritation-Cat.2; H315 - Causes skin irritation

Carcinogenic: Category 2
Mutagenic: Category 2
Xn - Harmful
Xi - Irritant
N - Dangerous for the environment

R45 - May cause cancer.
R46 - May cause heritable genetic damage.
R65 - Harmful: may cause lung damage if swallowed.
R22 - Harmful if swallowed.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36/38 - Irritating to eyes and skin.
R48/20/21/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

Data Sources: The data contained in this SDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.

Reasons for Revision: Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 11 - Toxicology Information. Updated Section 12 - Ecological Information. Updated Section 14 - Transport Information. Updated Section 15 - Regulatory Information.

Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

This SDS replaces version issued: October 2015

End of Safety Data Sheet