SAFETY DATA SHEET

According to Safe Work Australia

Printing Date 20.07.2021 Revision: 20.07.2021

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: BATTLEAXE PRO PROFESSIONAL CRACK & CREVICE AEROSOL

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use:
Insecticide surface spray aerosol for use by professional pest control operators.

Details of Manufacturer or Importer:
Sundew Solutions Pty Ltd
Unit 11, 4 Dunlop Court
Bayswater VIC 3153

Phone Number: 1800 786 339

Emergency telephone number: 1800 786 339

2 . HAZARDS IDENTIFICATION

Hazardous Nature:
Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.
Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).


flame

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.


health hazard

Aspiration Hazard 1	H304	May be fatal if swallowed and enters airways.



Serious Eye Damage/Irritation 2A	H319	Causes serious eye irritation.
Aquatic Acute 3	H402	Harmful to aquatic life.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

Signal Word Danger

Hazard Statements
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P251	Do not pierce or burn, even after use.
P211	Do not spray on an open flame or other ignition source.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P264	Wash hands thoroughly after handling.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
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.
P331	Do NOT induce vomiting.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

64-17-5	Ethanol Flammable Liquids 2, H225; Serious Eye Damage/Irritation 2, H319	30%
8008-20-6	Kerosine (petroleum) Aspiration Hazard 1, H304; Flammable Liquids 4, H227	16.7%
114-26-1	propoxur (ISO) Acute Toxicity (Oral) 3, H301; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2%
51-03-6	1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl- Acute Toxicity (Inhalation) 3, H331	1%
7696-12-0	tetramethrin Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.2%

4 . FIRST AID MEASURES

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:
In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:
In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Ingestion:
If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

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5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, foam, carbon dioxide or dry chemical powder. Do not use water jet.

Specific Hazards Arising from the Chemical:
Hazardous combustion products include oxides of carbon and nitrogen.
Highly flammable. Keep away from naked flames. Do not puncture or incinerate can.

Special Protective Equipment and Precautions for Fire Fighters:
When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:
Wear an approved respiratory protection and full protective clothing. Evacuate all non-essential personnel from affected area. Ensure adequate ventilation. Keep away from naked flames.

Environmental Precautions: In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:
Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Use only non-sparking tools.

7 . HANDLING AND STORAGE

Precautions for Safe Handling:
Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.
Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:
Store in a cool, dry and well ventilated area. Highly flammable. Do not puncture or incinerate can. Store at normal room temperature. Do not spray uninterrupted for more than 10 seconds in confined spaces. Keep away from direct sunlight and naked flames.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:	
64-17-5 Ethanol	
WES	TWA: 1880 mg/m³, 1000 ppm
114-26-1 propoxur (ISO)	
WES	TWA: 0.5 mg/m³

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

Respiratory Protection:
Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more

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information.

Skin Protection:
PVC, PVA, nitrile, neoprene, rubber or vinyl gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.
When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.
Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:
Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	
Form:	Aerosol
Colour:	According to product specification
Odour:	Characteristic
Odour Threshold:	Not determined.
pH-Value:	Not determined.
Melting point/Melting range:	Undetermined.
Initial Boiling Point/Boiling Range:	Not applicable, as aerosol.
Flash Point:	Not applicable, as aerosol.
Flammability:	Highly flammable.
Auto-ignition Temperature:	
Decomposition Temperature:	Not determined.
Explosion Limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour Pressure:	Not determined.
Density:	Not determined.
Relative Density at 20 °C:	0.77
Vapour Density:	Not determined.
Evaporation Rate:	Not applicable
Solubility in Water:	No information available
Partition Coefficient (n-octanol/water):	Not determined.
Solids content:	2.0 %

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: No further relevant information available.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Keep away from naked flames.

Incompatible Materials: No further relevant information available.

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Hazardous Decomposition Products: Oxides of carbon and nitrogen

11 . TOXICOLOGICAL INFORMATION

Toxicity:

LD_{50}/LC_{50} Values Relevant for Classification:		
64-17-5 Ethanol		
Oral	LD_{50}	7060 mg/kg (rat)
Inhalation	LC_{50}/4 h	20000 mg/l (rat)
114-26-1 propoxur (ISO)		
Oral	LD_{50}	95 mg/kg (rat)
51-03-6 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-		
Oral	LD_{50}	7181 mg/kg (rat)
Dermal	LD_{50}	>2000 mg/kg (rabbit)
Inhalation	LC_{50}/4 h	>5.9 mg/l (rat)

Acute Health Effects
Inhalation: No adverse health effects expected.
Skin: No adverse health effects expected.
Eye: Causes serious eye irritation.
Ingestion: Ingestion is not considered a potential route of exposure.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity:
Piperonyl butoxide is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:
Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:
Based on classification principles, the classification criteria are not met.

Aspiration Hazard: May be fatal if swallowed and enters airways.

Chronic Health Effects: No information available

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information:
The Australian Acceptable Daily Intake (ADI) for propoxur for a human is 0.02 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.2 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', March 2016).
The Australian Acceptable Daily Intake (ADI) for tetramethrin for a human is 0.02 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 2 mg/kg/day, the level determined to show no effects

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during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', March 2016).
Propoxur belongs to the carbamate group of insecticides, which are acetylcholinesterase inhibitors. Symptoms of poisoning include mild intoxication causes headache, blurred vision, weakness, sweating, mild chest pain, nausea and vomiting. Severe intoxication causes cyanosis, muscular twitching, spasms, miosis and respiratory paralysis. Onset of symptoms may be delayed. Cholinesterase inhibition sometimes persists for several weeks.

12 . ECOLOGICAL INFORMATION

Ecotoxicity:
Propoxur is classed as extremely toxic to bees.
Tetramethrin is toxic to bees.

Aquatic toxicity:
Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

51-03-6 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-	
LD_{50}	>2250 mg/kg (bobwhite quail)
LC_{50}/96 h	5.37 ppm (bluegill)
	6.12 ppm (rainbow trout)
LC_{50}/48 h	0.51 ppm (daphnia)
LC_{50}	>5620 ppm (bobwhite quail) (5 day dietary)
	>5620 ppm (mallard) (5 day dietary)

Persistence and Degradability: No information available

Bioaccumulative Potential: No information available

Mobility in Soil: No information available
Other adverse effects: No information available

13 . DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:
Please consult your state Land Waste Management Authority for more information.

14 . TRANSPORT INFORMATION

UN Number
ADG, IMDG, IATA UN1950

Proper Shipping Name
ADG 1950 AEROSOLS
IMDG AEROSOLS
IATA AEROSOLS, non-flammable

Dangerous Goods Class
ADG Class: 2 5A Gases.
IMDG Class: 2.2

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Packing Group:
ADG, IMDG, IATA Void

EMS Number: F-D,S-U

Limited Quantities: 1L

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:	
64-17-5	Ethanol
8008-20-6	Kerosine (petroleum)
114-26-1	propoxur (ISO)
51-03-6	1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-
7696-12-0	tetramethrin

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 5

16 . OTHER INFORMATION

Date of Preparation or Last Revision: 20.07.2021

Prepared by:
Abbreviations and acronyms:
ADG: Australian Dangerous Goods
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC_{50}: Lethal concentration, 50 percent
LD_{50}: Lethal dose, 50 percent
IARC: International Agency for Research on Cancer
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)
Aerosol 1: Aerosols – Category 1
Flammable Liquids 2: Flammable liquids – Category 2
Flammable Liquids 4: Flammable liquids – Category 4
Acute Toxicity (Oral) 3: Acute toxicity – Category 3
Serious Eye Damage/Irritation 2: Serious eye damage/eye irritation – Category 2
Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A
Aspiration Hazard 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1
Aquatic Acute 3: Hazardous to the aquatic environment, short-term (Acute). Category 3
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term (Chronic). Category 3

Disclaimer
This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011”
The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Sundew Solutions Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. Sundew Solutions Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the

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suitability of the information provided to the particular circumstances in which the product is used.