

according to Safework Australia

Date of Issue: 11/11/2015

Revision Date: 3rd Aug 2023 Version 1.3

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Identification : Mixture Product form : EcoBurner Fuel Product name Relevant identified uses of the substance or mixture and uses advised against 12 Use of the substance/mixture : For use ONLY in re-fill of EcoBurner, as directed by EcoBurner Ltd. Directions for use provided in "EcoBurner Instructions." Use only with approved EcoBurner Devices. Use of the substance/mixture : Fuel 1.3. Details of the supplier of the safety data sheet TD INNOVATIONS EcoBurner, Ltd. Unit 5 Airside, Gulf Stream Avenue Unit 8. 23 Breene Place. Airport Business Park Morningside. 4170. Queensland Australia Waterford, T +61 (0)7 3397 0595 T +353 (0)51 353806 - F +353 (0)51 364067 info@ecoburner.com - www.ecoburner.com info@tdinnovations.com.au 1.4. **Emergency telephone number**

Emergency number: NCEC Carechem Aus

Australia: +61 2 8014 4558 New Zealand: +64 9 929 1483

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

Flam. Aerosol 1 H222 - Extremely flammable aerosol Compressed gas H280 - Contains gas under pressure; may explode if heated

Full text of H-statements: see section 16

2.2. Label elements

GHS labelling

Hazard pictograms (GHS)



Signal word (GHS) Hazard statements (GHS)

Precautionary statements (GHS)

- : H222 Extremely flammable aerosol H280 - Contains gas under pressure; may explode if heated
- H200 Contains gas under pressure, may explode if heated
- : P210 Keep away from heat, open flames, sparks. Nosmoking
 - P211 Do not spray on an open flame or other ignition source
 - P251 Pressurized container: Do not pierce or burn, even after use
 - P410+P403 Protect from sunlight. Store in a well-ventilated place P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture

Name	Product identifier	%	GHS classification
n-Butane	(CAS No) 106-97-8	70 – 90	Flam. Gas 1, H220
Propane	(CAS No) 74-98-6	10 – 30	Flam. Gas 1, H220
Isobutane	(CAS No) 75-28-5	1 – 5	Flam. Gas 1, H220

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measur >s	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Artificial respiration and/or oxygen if necessary. Call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	: Thaw frosted parts with lukewarm water. Do not rub affected area. Get medical advice/attention.
First-aid measures after eye contact	: Direct contact with the eyes is likely to be irritating.
First-aid measures after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries after inhalation	: In high concentrations : Anesthetic effects. Shortness of breath. Inhalation of vapours may cause respiratory irritation. Headache. Dizziness. Nausea.
Symptoms/injuries after skin contact	: May cause moderate irritation. Rapid evaporation of the liquid may cause frostbite.
Symptoms/injuries after eye contact	: This gas is non-irritating; but direct contact with liquefied/pressurized gas or frost particles may produce severe and possibly permanent eye damage from freeze burns.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5:	Firefighting	measures
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5.1.	Extinguishing	media
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5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry chemical. Foam. Water spray. Water fog.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising	from the substance or mixture
Fire hazard	: Extremely flammable aerosol.
Explosion hazard	 Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Reactivity	: No dangerous reactions known.
5.3. Advice for firefighters	
Precautionary measures fire	: Stop leak if safe to do so.
Firefighting instructions	: DO NOT fight fire when fire reaches explosives. Evacuate area.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus.
SECTION 6: Accidental rel	ease measures
6.1. Personal precautions, p	protective equipment and emergency procedures
General measures	: No open flames. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.
6.1.1. For non-emergency pers	sonnel

: Do not breathe aerosol. Refer to section 8.2.

6.1.2. For emergency responders

Protective equipment	
Emergency procedures	

Protective equipment

Emergency procedures

Do not breathe aerosol. Refer to section 8.2.
Stop leak if safe to do so. Eliminate every possible source of ignition. Evacuate unnecessary personnel. Keep upwind.

: Stop leak, if possible without risk. Keep upwind. Evacuate unnecessary personnel.

6.2. Environmental precautions

Notify authorities if product enters sewers or public waters. Do not discharge into drains or the environment.

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6.3. Methods and material for containment and cleaning up

For containment

6.4.

- : Eliminate all ignition sources.
- Methods for cleaning up

: Notify environmental authorities.

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

Reference to other sections

7.1. Precautions for safe handling

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Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable. Pressurized container: Do not pierce or burn, even after use.
Precautions for safe handling	: Do not spray on an open flame or other ignition source.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, inc	luding any incompatibilities
7.2. Conditions for safe storage, inc Technical measures	luding any incompatibilities : Avoid static electricity discharges. No flames, no sparks. Eliminate all sources of ignition.
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Technical measures	: Avoid static electricity discharges. No flames, no sparks. Eliminate all sources of ignition.

Storage area : Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

n-Butane (106-97-8)		
Australia	TWA (ppm)	800 ppm
Australia	TWA (mg/m³)	1900 mg/m ³

8.2. **Exposure controls**

Appropriate engineering controls	: Provide local exhaust or general room ventilation.
Personal protective equipment	: Avoid all unnecessary exposure. Accidental release of the contents: avoid leaks.
Hand protection	: None under normal use. It is a good industrial hygiene practice to minimize skin contact. In case of repeated or prolonged contact wear gloves. Insulated gloves.
Eye protection	: None under normal use. In case of splashing or aerosol production: protective goggles.
Respiratory protection	 No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of inadequate ventilation wear respiratory protection. Use self-contained breathing apparatus.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Gas
Appearance	: Aerosol.
Colour	: Colourless
Odour	: Sweet petroleum
Odour threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: -42.20.5 °C (-1.1 - 31.1 °F)
Flash point	: -104.4 °C (-156 °F (estimated))
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: >1
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: 40 PSIG @ 70 °F

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Relative density	: 0.567
Relative vapour density at 20 °C	: 1.886
Solubility	: Water: 0.008 % @ 70 °F
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: 0.084 - 0.14 cP liquid
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
VOC content	: 100 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat. Sparks. Open flame. Direct sunlight. Overheating.

10.5. Incompatible materials

Strong oxidizers. Alkali. Strong mineral acids.

10.6. Hazardous decomposition products

Carbon monoxide. Mixture of hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Likely routes of exposure	: Inhalation; Skin and eye contact
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: In high concentrations : Anesthetic effects. Shortness of breath. Inhalation of vapours may cause respiratory irritation. Headache. Dizziness. Nausea.
Symptoms/injuries after skin contact	: May cause moderate irritation. Rapid evaporation of the liquid may cause frostbite.
Symptoms/injuries after eye contact	: This gas is non-irritating; but direct contact with liquefied/pressurized gas or frost particles may produce severe and possibly permanent eye damage from freeze burns.

SECTION 12: Ecological information

12.3. Bioaccumulative potential

No additional information available

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Sewage disposal recommendations
- Waste disposal recommendations

Additional information

- : Do not dispose of waste into sewer.
- Container under pressure. Do not drill or burn even after use. Dispose in a safe manner in : accordance with local/national regulations.
- : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

Australia Dangerous Goods (ADG) Code	
In accordance with ADG	
UN-No.	: UN1950
Proper Shipping Name	: AEROSOLS
Transport hazard class(es)	: 2 - Class 2
Hazard labels	: 2 - Flammable gas
Special Provisions	: 63
	190
	277
	327
	344
Limited Quantities	: See SP 277
Packagings & IBCs Packing Instruction	: P207
	LP02
Packagings & IBCs Special Packing Provisions	: PP87
	L2
Transport by sea	
UN-No. (IMDG)	: 1950
Proper Shipping Name (IMDG)	: AEROSOLS
Class (IMDG)	: 2 - Gases
Air transport	
UN-No. (IATA)	: 1950
Proper Shipping Name (IATA)	: Aerosols, flammable
Class (IATA)	: 2

SECTION 15: Regulatory information

National regulations		
n-Butane (106-97-8)		
Listed on the AICS (Australian Inventory of Chemical Substances)		
Isobutane (75-28-5)		
Listed on the AICS (Australian Inventory of Chemical Substances)		
Propane (74-98-6)		
Listed on the AICS (Australian Inventory of Chemical Substances)		

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SECTION 16: Other information

Indication of changes	: Section 2 information (other than label requirements)
Revision date	: 12/23/2015
Data sources	: Australia Worksafe "Preparation of Safety Data Sheets for Hazardous Chemicals".
	European Chemicals Agency (ECHA) C&L Inventory database. Accessed at http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database.
	Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.
	National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.
Abbreviations and acronyms	: CAS (Chemical Abstracts Service) number.
	ATE: Acute Toxicity Estimate.
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population.
	NOEC: No Observable Effect Concentration.
	OSHA: Occupational Safety & Health Administration.
	PNEC: Predicted No Effect Level.
	STEL: Short Term Exposure Limits.
	TSCA: Toxic Substances Control Act.
	TWA: Time Weight Average.
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-statements:

ion	text of it statements.			
	Compressed gas	Gases under pressure : Compressed gas		
	Flam. Aerosol 1	Flammable aerosols, Category 1		
	Flam. Gas 1	Flammable gases, Category 1		
	H220	Extremely flammable gas		
	H222	Extremely flammable aerosol		
	H280	Contains gas under pressure; may explode if heated		

Redstone SDS AUS GHS for Ecoburner

SDS Prepared by:

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product