Safety Data Sheet

1. IDENTIFICATION

Product name: **BSE 170 OIL**
Product code: 1326769 Ester

Recommended use: Refrigerant lubricants.

Restrictions on use: None identified.

Supplier: **Bitzer Australia Pty Ltd**
Street address: **134-136 Dunheved Circuit, St Marys NSW 2760, Australia.**
Telephone: (02) 8801 9300
Emergency phone number: For transport emergency call CHEMTREC (+1) 703 527 3887 or within Australia (02) 9037 2994

2. HAZARD(S) IDENTIFICATION

This material is non-hazardous according to the criteria of the GHS (7th Revised Edition), the Work Health and Safety Legislation (as adopted in most states and territories of Australia) and the Victorian Dangerous Goods (Storage and Handling) Regulations 2022.

Signal Word

Not applicable

Hazard Classifications

Non-hazardous

Hazard Statements

Not applicable

Prevention Precautionary Statements

Not applicable

Response Precautionary Statements

Not applicable

Storage Precautionary Statements

Not applicable

Disposal Precautionary Statements

None

Poison Schedule: Not Applicable

DANGEROUS GOODS CLASSIFICATION:

Not Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION AND INFORMATION ON INGREDIENTS

CHEMICAL ENTITY	CAS No.	PROPORTION (% w/w)
Polyol ester	Not disclosed as ingredient is non-hazardous under the GHS	Not applicable
Other non-hazardous ingredients	Not disclosed as ingredients are non-hazardous under the GHS	Balance to 100%

No components of this product are present at a concentration that would trigger classification under the Globally Harmonized System of Classification and Labelling of Chemicals (the GHS, 7th Revised Edition), either individually or in combination.

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: In the event of inhalation of the mist or vapor of the product, remove patient from further exposure (to fresh air if practical to do so) or remove the source of the mist or vapor. Ensure the patient's airways are clear. Use adequate respiratory protection or a facemask if there is likely to be any breathing difficulty. If excessive oil mist has been inhaled, seek medical attention. If respiratory irritation, nausea or unconsciousness develop, seek immediate medical assistance.

Skin Contact: The product is not expected to cause skin irritation or skin sensitization. However, prolonged skin contact may cause irritation. Remove any contaminated clothing. Gently wash exposed skin and contact areas with soap and water. If product may have penetrated the skin, for example through an exposed wound, seek immediate medical attention from a physician. If swelling, redness, blistering or irritation occur after contact with the product seek medical assistance.

Eye contact: The product is not expected to cause eye irritation. However, if eye contact has occurred then it's recommended that eyes are rinsed with tap water or with a commercially available eyewash solution. If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for at least 15 minutes and seek medical assistance if eye damage is apparent or if eye irritation persists. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs, give further water. Seek medical advice if any adverse symptoms develop.

PPE for First Aiders: As a precaution when administering first aid, wear gloves and safety glasses in order to restrict skin and eye contact with the product.

Notes to physician: Treat symptomatically.

5. FIREFIGHTING MEASURES

Hazchem Code: Not applicable

Suitable extinguishing media: The product is considered to be combustible liquid, with a flash point of 266°C. If the product is on fire DO NOT fight the fire with a water jet. Appropriate firefighting media include carbon dioxide, foam, or dry chemical. Water fog may be used to cool exposed containers.

Firefighting techniques: The product is a fluid and when burning it may evolve irritating/noxious fumes. Burning liquid may escape containers and flow into surrounding areas. Evacuate the area as soon as possible. Firefighters should use protective clothing and equipment and approved self-contained breathing apparatus (SCBA). Smoke, fumes, oxides of nitrogen, oxides of sulfur, carbon monoxide, carbon soot and inorganic products from incomplete combustion may be present. Water spray may be used to cool fire-affected surfaces and to protect personnel.

Specific hazards: In conditions of intense combustion, oxides of nitrogen, sulfur and carbon may be evolved.

Firefighting further advice: None.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear personal protective equipment to prevent skin and eye contamination. Avoid inhalation of any mist of the product. Collect and seal in properly labelled containers or drums for disposal. Residual liquid can be absorbed on inert material.

LARGE SPILLS

Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of any mist of the product. Collect and seal in properly labelled containers or drums for disposal. Prevent the release of the product into waterways. If significant quantities have been accidentally released to a natural waterway then the appropriate regulator should be notified for further advice. Residual liquid can be absorbed on inert material.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable.

7. HANDLING AND STORAGE

Handling: Avoid eye contact and repeated or prolonged skin contact with the product. Avoid inhalation of mist of the product. Repeated or prolonged contact with this material should be avoided in order to reduce the possibility of skin disorders. Observe good personal hygiene. Good ventilation is recommended and avoid build-up of oil mist in working areas.

Misuse of empty containers can be hazardous. Do not cut, weld, heat or drill containers. Residue in the container may ignite if exposed to excessive heat. Do not expose container to open flame or excess heat. Always keep container closed and caps in place.

Storage: This product is hydroscopic and storage under dry nitrogen is recommended. Keep container tightly sealed when not in use. Store in a cool, dry, well-ventilated area, out of direct sunlight. Keep product away from open flames and other ignition sources. For safe storage refer to Australian Standards AS1940, which is considered to represent best practice for the storage and handling of combustible liquids. Under the AS 1940 standard, this product is considered to be a C2 combustible liquid.

Maximum Handling Temperature: Not determined.

Maximum Storage Temperature: Not determined.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

National occupational exposure limits (as published by Safe Work Australia):

Exposure limit:	TWA		STEL		NOTICES
Substance	ppm	mg/m³	ppm	mg/m³	
Oil mist, refined mineral	-		-	-	None

The above limit for “Oil mist, refined mineral” may not be specific to this product but is recommended as an exposure limit in any workplace where a mist of the product might be created. No other components are present within the product at a concentration that would trigger concerns about their respective exposure limits.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15-minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Use in a well-ventilated area. Where vapors or oil mists are generated and exposure standards are exceeded, the use of personal respiratory protective equipment or the use of an adequate exhaust ventilation system is recommended.

Personal Protection Equipment:

Personal protective equipment (PPE) must be suitable for the nature of the work and suitable to minimise any hazard associated with the work as identified by any risk assessment conducted

If engineering controls are still inadequate, the use of an approved respirator with organic vapor/particulate filter complying with AS/NZS 1715 (Selection, Use and Maintenance of Respiratory Protective Devises) and AS/NZS 1716 (Respiratory Protective Devices) is recommended. The selection of types of breathing protection should be based on expert advice. Reference should be made to the relevant Australian Standard

As a precaution, wear neoprene gloves and safety glasses when handling the product. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating or drinking. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Always observe good personal hygiene measures. When handling the product do not eat, drink or smoke. Avoid eye contact and prolonged skin contact. Avoid inhalation of mist of the product. Ensure that a source of clean water is available for washing exposed parts of the body or contaminated clothing. Discard contaminated footwear that cannot be cleaned.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties.

Appearance

Form:	Liquid
Appearance/Colour:	Colorless to Yellow
Odour:	Mild
Solubility in Water:	Insoluble in Water
Solubility (other):	No data available
Evaporation Rate	No data available
Relative Density (15.6°C):	0.954
Relative Vapour Density:	No data available
Vapour Pressure (20°C):	No data available
Flash Point (°C):	265.6 °C (Cleveland Open Cup)
Flammability Limits - upper (%):	No data available
Flammability Limits - lower (%):	No data available
Autoignition Temperature (°C):	No data available
Melting Point/Range (°C):	
Boiling Point/Range (°C):	No data available
pH:	No data available
Viscosity:	No data available
Decomposition Temperature:	No Data available
Explosive properties:	No Data available
Oxidizing Properties:	No data available
Pour Point Temperature:	No data available

Typical values only.
N. Av. = Not available, N. App. = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed and can be considered to be stable under normal conditions of storage and handling. However, storage under dry nitrogen is recommended (see Section 7).

Conditions to avoid: Do not expose to excessive heat or to ignition sources or oxidizing materials, strong oxidizing agents.

Incompatible materials: Oxidizing materials, strong acids. Strong bases.

Hazardous decomposition products: Material does not decompose at ambient temperatures. Analogous compounds evolve carbon monoxide, carbon dioxide, and other unidentified combustion products when undergoing combustion.

Hazardous reactions: No known hazardous reactions; hazardous decomposition will not occur.

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and if overexposure occurs are:

Acute Effects:

Inhalation: May cause irritation to the mucous membrane and upper airways, especially if the material is heated or mists are generated during use of the product in poorly ventilated areas. Symptoms may include headache, dizziness and nausea.

Skin contact: Contact with skin is not expected to result in irritation except in rare cases.

Ingestion: May cause irritation to the mouth and gastrointestinal lining. Symptoms may include nausea, vomiting and diarrhea and abdominal pain.

Eye contact: May cause slight to moderate eye irritation, resulting in redness, stinging and lachrymation.

Acute toxicity:

Inhalation: This material does not meet the classification criteria for acute toxicity (inhalation). Acute toxicity estimate (based on ingredients): LC50 > 20.0 mg/L for vapors or LC50 > 5.0 mg/L for mist or LC50 > 20,000 ppm for gas

Skin contact: This material does not meet the classification criteria for acute toxicity (dermal). Acute toxicity estimate (based on ingredients): >2,000 mg/Kg bw

Ingestion: This material does not meet the classification criteria for acute toxicity (oral). Acute toxicity estimate (based on ingredients): >2,000 mg/Kg bw

Corrosion/Irritancy: This material does not meet the classification criteria for skin corrosion or skin irritancy.

Sensitisation (inhalation): This material does not meet the criteria for classification as a respiratory sensitizer.

Sensitisation (skin): This material has been found not to meet the criteria for classification as a skin sensitizer. Prolonged or repeated skin contact as from wet with material may cause dermatitis. Symptoms may include redness, edema, drying and cracking of the skin.

Aspiration hazard: This material does not meet the criteria for classification as an aspiration hazard.

Specific target organ toxicity (single exposure): This material does not meet the classification criteria for specific target organ toxicity (single exposure).

Chronic Toxicity:

Mutagenicity: This material does not meet the classification criteria for germ cell mutagenicity.

Carcinogenicity: This material does not meet the classification criteria for carcinogenicity.

Reproductive toxicity (including via lactation): This material does not meet the classification criteria for reproductive toxicity.

Specific target organ toxicity (repeat exposure): This material does not meet the classification criteria for specific target organ toxicity (repeat exposure).

12. ECOLOGICAL INFORMATION

Ecotoxicity

Fish:	
Aquatic Invertebrates:	No data available
Toxicity to Aquatic Plants:	No data available
Toxicity to soil dwelling organisms:	No data available
Sediment Toxicity:	No data available
Toxicity to Terrestrial Plants:	No data available
Toxicity to Above-Ground Organisms:	No data available
Toxicity to microorganisms:	No data available

Persistence and Degradability:

Biodegradation:	No data available

Bioaccumulative Potential:

Bioconcentration Factor (BCF):	No data available
Partition Coefficient n-octanol/water (log Know)	No data available

Mobility: No data available

Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional or national regulations. Within each state and territory there are known to be waste classification guidelines that would need to be consulted in order to classify the waste material. Empty containers contain product residue which may exhibit hazards of product.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT
Not classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Transport in bulk according to Annex 11 of MARPOL and the IBC Code

None known.

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. For transportation, steps must be taken to prevent load shifting or material falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

15. REGULATORY INFORMATION

Inventory Status:

Australia (AIIC)

All components are in compliance with chemical notification requirements in Australia.

Canada (DSL/NDSL)

All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.

China (IECSC)

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

European Union (REACH)

To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com

Great Britain (UK REACH)

To obtain information on the UK REACH compliance status of this product, please e-mail REACH@SDSInquiries.com

Japan (ENCS)

All components are in compliance with the Chemical Substance Control Law of Japan.

Korea (ECL)

All components are in compliance in Korea.

New Zealand (NZIoC)

All components are in compliance with chemical notification requirements in New Zealand.

Philippines (PICCS)

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

Switzerland (SWISS)

May require notification before sale in Switzerland.

Taiwan (TCSCA)

All components of this product are listed on the Taiwan inventory.

Turkey (KKDIK)

To obtain information on the KKDIK compliance status of this product, please e-mail REACH@SDSInquiries.com

Unites States (TSCA)

All substances contained in this product are listed on the TCA inventory or are exempt.

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Poison Schedule Number: Poisons schedule number not allocated.

16. ANY OTHER RELEVANT INFORMATION

Reason for issue: Revision of SDS

This Safety Data Sheet has been prepared by BITZER Australia Pty Ltd on behalf of its supplier.

Safety Data Sheets should be reviewed every five years and more frequently if new information on the ingredients emerges. Please ensure that you have a current copy.

The manufacturer will not be held responsible for any unauthorized use of this information or for any modified or altered versions.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact the supplier of this product.

The responsibility for the product as sold is subject to the supplier's standard terms and conditions.

Issue Date: 22.10.2024

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