



1. IDENTIFICATION

Product name: BSE 170 OIL
Product code: 1326769 Ester

Recommended use: Synthetic refrigeration compressor oil

Supplier: CPI Corporation Pty Ltd (distributed by Bitzer Australia Pty Ltd)
Street address: 148 Old Pittwater Road, Brookvale NSW 2100, Australia
Telephone: (02) 9939 9988
Emergency phone number: (02) 9939 9988

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

None

Hazard Classifications

Non-hazardous

Hazard Statements

None

Prevention Precautionary Statements

None

Response Precautionary Statements

None

Storage Precautionary Statements

None

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 vapour of the product, remove patient from further exposure (to fresh air if practical to do so) or remove the source of the mist or vapour. 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 sensitisation. 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.

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.

Fire fighting 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.

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.

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 hygroscopic 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.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

Exposure limit:	TWA		STEL		NOTICES
Substance	ppm	mg/m ³	ppm	mg/m ³	
Oil mist, refined mineral	-	5	-	-	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 vapours 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 vapour/particulate filter complying with AS/NZS 1715 (Selection, Use and Maintenance of Respiratory Protective Devices) and AS/NZS 1716 (Respiratory Protective Devices) is recommended. The selection of type of breathing protection should be based on expert advice. Reference should be made to the relevant Australian Standards.

As a precaution, wear 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.



9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Appearance/Colour:	Clear, Clear amber to light yellow
Odour:	May have a weak, indeterminate odour
Solubility:	Insoluble
Specific Gravity (Water = 1):	0.94 to 0.96 at 20°C
Relative Vapour Density (air=1):	N. Av.
Vapour Pressure (20°C):	N. Av.
Flash Point (°C):	266°C (ASTM D92, typical value)
Flammability Limits (%):	N. Av.
Autoignition Temperature (°C):	N. Av.
Melting Point/Range (°C):	N. Av.
Boiling Point/Range (°C):	N. Av.
pH:	N. Av.
Viscosity:	N. Av.
Total VOC (g/Litre):	N. Av.

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.

Incompatible materials: Oxidizing materials.

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, oesophagus and stomach. Symptoms may include nausea, vomiting and diarrhoea.

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 vapours 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 sensitiser.

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

Avoid contaminating waterways.

Acute aquatic hazard: This material does not meet the classification criteria for short-term aquatic toxicity. Acute toxicity estimate (based on ingredients): >100 mg/L

Chronic aquatic hazard: This material does not meet the classification criteria for long-term aquatic toxicity (i.e. chronic aquatic toxicity). Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log K_{ow} < 4.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information 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. For example, in NSW the first step in disposal of the waste would be to consult the EPA Waste Classification Guidelines Part 1: Classifying waste (issued November 2014, or as subsequently amended since the date of this SDS). Any waste contractor in NSW would need to be licensed to accept this product as waste for disposal under the NSW Protection of the Environment Operations Act (POEO Act) 1997, or under any legislation that supersedes that act.

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.



15. REGULATORY INFORMATION

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)

The Stockholm Convention (Persistent Organic Pollutants) The

Rotterdam Convention (Prior Informed Consent)

International Convention for the Prevention of Pollution from Ships (MARPOL)

Basel Convention (Hazardous Waste)

This material/constituent(s) is covered by the following requirements:

- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

16. ANY OTHER RELEVANT INFORMATION

Reason for issue: Revision of SDS

This Safety Data Sheet has been prepared by CETEC Pty Ltd on behalf of its client.

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.

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised 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 product as sold is subject to the supplier's standard terms and conditions.