



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: ABR-SERIES
OTHER/GENERIC NAMES: Alkylbenzene Refrigeration Compressor Lubricant; Synthetic Lubricants;
PRODUCT USE: Lubricant; Refrigeration Compressor Lubricant
EXIM TRADING LLC 12601 NW 115TH Ave, Unit 111A, Medley, FL, 33178
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FOR EMERGENCY

Medical: 1-800-498-5701
Transportation: Chemtrec 1-800-424-9300
OUTSIDE UNITED STATES, CALL COLLECT 1-352-323-3500

2. COMPOSITION / INFORMATION ON INGREDIENTS

Description This product does not contain any substances classified as hazardous to health

Component Name	CAS Number	% (w/w)	OSHA PEL	ACGIH TLV
Alkylbenzene	---	---	No PEL established	No TL established

Ingredients not precisely identified are proprietary or nonhazardous.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

COLOR: Clear to yellow liquid

PHYSICAL FORM: Liquid

ODOR: Odorless

PRIMARY ROUTE OF EXPOSURE: Skin

MAJOR HEALTH HAZARDS: MAY BE HARMFUL IF SWALLOWED. INHALATION OR INGESTION MAY CAUSE MUCOUS MEMBRANE IRRITATION. EXCESSIVE INHALATION EXPOSURE MAY CAUSE IRRITATION OF RESPIRATORY PASSAGES.

PRECAUTIONARY STATEMENTS: Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Keep container tightly closed. Wash thoroughly after handling. Use only with adequate ventilation.



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POTENTIAL HEALTH EFFECTS:

Routes of Exposure

- EYE CONTACT:** Expected to cause no more than minor eye irritation. Application of a similar product into the eyes of rabbits produced very slight membrane irritation without corneal injury. Avoid eye contact as good industrial practice.
- SKIN CONTACT:** Not a primary skin irritant but may cause skin irritation on repeated or prolonged contact. Application of a similar product onto the skin of rabbits produced slight erythema and edema.
- INHALATION:** Avoid breathing vapor or mist. Under normal use conditions, this product is not an inhalation hazard. Prolonged exposure to vapors may cause dizziness and headaches. No toxic effects are known to be associated with inhalation of this material.
- INGESTION:** May cause nausea. Not expected to be acutely toxic by ingestion. In humans, irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion of this product.
- OTHER:** Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.

4. FIRST AID MEASURES

- Skin contact** Wash affected areas thoroughly with soap and water. Wash contaminated clothing before reuse. If redness, itching, or a burning sensation develops, get medical attention.
- Eye contact** Flush with clean, lukewarm water (low pressure) occasionally lifting eyelids for at least 15 minutes. If redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel.
- Inhalation** Avoid breathing oil mists. Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given by qualified personnel if breathing is difficult. Get medical attention.
- Ingestion** DO NOT INDUCE VOMITING. Fluid has laxative effect. Give one or two glasses of water to drink and refer to medical personnel. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

- EXTINGUISHING MEDIA:** For small fires: Carbon dioxide (CO₂) Dry chemical, Foam, Water spray.
- FIRE HAZARDS:** LOW FIRE HAZARD - Do not cut, drill, or weld empty containers. Water or foam may cause frothing
- PROTECTIVE EQUIPMENT:** A self contained breathing apparatus and suitable protective clothing must be worn in fire conditions.
- UNUSUAL OR EXPLOSIVE HAZARDS:** None



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6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Ensure adequate ventilation of the working area.

ENVIRONMENTAL PRECAUTIONS: Do not allow product to enter drains. Prevent further spillage if safe.

CLEAN UP METHOD: Absorb with inert, absorbent material and shovel into a chemical waste container. Transfer to suitable, labeled containers for disposal. Clean spillage area thoroughly with plenty of water containing detergent and flush to a sewer serviced by a permitted wastewater treatment facility.

7. HANDLING AND STORAGE

NORMAL HANDLING: (Always wear recommended personal protective equipment)
Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

STORAGE RECOMMENDATIONS:
Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labeled containers. Store at a maximum temperature of 40°C

WASTE DISPOSAL METHODS:
This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES: Ensure adequate ventilation of the working area.

OCCUPATIONAL EXPOSURE CONTROLS: Keep away from food, drink and animal feed.

RESPIRATORY PROTECTION: Airborne concentrations should be kept to lowest levels possible. If vapor, dust or mist is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air-supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.



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SKIN/HAND PROTECTION:	Protective clothing such as coveralls or lab coats should be worn. Launder or dry-clean when soiled. Gloves and boots resistant to chemicals and petroleum distillates required. Exposed workers should wash exposed skin several times daily with soap and water.
EYE PROTECTION:	Normally none required, chemical goggles if splashing is likely or high pressure systems are used.
VENTILATION:	Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or MIOSH approved respirator as appropriate.
EXPOSURE LIMITS:	None established for product.

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL PROPERTIES

DESCRIPTION:	Liquid
COLOR:	Clear to yellow liquid
ODOR:	Odorless
VAPOR PRESSURE:	LT 0.001
VAPOR DENSITY: (AIR=1)	Not determined
SOLUBILITY IN WATER:	Negligible
pH:	Not applicable
MELTING/FREEZING POINT:	Not determined
AVERAGE MOLECULAR WT.:	365 (typical)
BOILING POINT:	314°C
SPECIFIC GRAVITY (H₂O=1)	0.87
OTHER:	None
FLASH POINT:	>175°C
AUTO IGNITION TEMPERATURE:	>421°C

SPECIFIC PROPERTIES

Lubrication Properties	ABR-32	ABR-46	ABR-68	ABR-100
Viscosity cSt @ 40°C	33.9	42.8	64.9	98.5
Viscosity cSt @ 100°F	159.1	190	301	457
Flash Point °F	350	350	350	350
Pour Point °F	-40	-40	-30	-30
FLOC Point °F	-100	-85	-65	-76
Copper Corrosion, 24 Hr	1a	1a	1a	1a
Sealed Tube Stability	0.15	0.15	0.15	0.15



10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.
INCOMPATIBILITY: May react with strong oxidizing materials
HAZARDOUS POLYMERIZATION: Will not occur
MATERIALS TO AVOID: Strong oxidizing agents.
DECOMPOSITION PRODUCTS: Analogous compounds evolve, carbon monoxide, carbon dioxide, and other undefined fragments.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

ORAL: LD₅₀ believed to be >5 g/kg (rat) practically non-toxic
INHALATION: Not determined; not expected to be an inhalation hazard.
DERMAL: LD₅₀ believed to be >5 g/kg (rabbit) practically non-toxic.

IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)

SKIN: (Draize) believed to be between 3-5 (rabbit) moderately irritating (maximum 8)
EYES: (Draize) believed to be <15 (rabbit) no appreciable effect (maximum 110)
SENSITIZATION: Not determined
OTHER: This product, or a component of this product, has been shown to damage red blood cells or blood forming organs, and has caused anemia in laboratory animals.

12. ECOLOGICAL / ENVIRONMENTAL INFORMATION

ENVIRONMENTAL INFORMATION

96 hr. LC₅₀ Rainbow Trout (*Salmo gairdneri*) >1,000mg/L practically non-toxic.
96 hr. LC₅₀ Sheepshead Minnow (*Cyprinodon variegatus*) >1,000mg/L practically non-toxic.

BIODEGRADABILITY: Estimated to be less than 40% degradation over a test period of more than 28 days.

POTENTIAL TO BIOACCUMULATION: This product is estimated to have a very slow rate of bioaccumulation.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the



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CONTAINER DISPOSAL

user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous. Dispose of in compliance with all local and national regulations. Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residues from container and puncture or otherwise destroy empty container before disposal.

14. TRANSPORT INFORMATION

DOT:	Not regulated according to DOT.
IMDG:	Not regulated according to IMDG.
ICAO/IATA:	Not regulated according to ICAO/IATA.
TDG:	Not regulated according to TDG.
PRODUCT LABEL:	Alkylbenzene 150

15. REGULATORY INFORMATION

FEDERAL REGULATIONS:

This product and/or its components are considered non-hazardous by the following standards:

- OSHA Hazard Communication Classification
- SARA Title III Section 311 Hazardous Categorization

No chemicals subject to reporting per the following standards:

- SARA Title III Section 302/304 Extremely Hazardous Substances.
- SARA Title III Section 313 Toxic Chemical.
- CERCLA 102(a)/DOT Hazardous Substances.
- California Prop. 65
- States Right-To-Know Regulations.
CT, FL, IL, MI, LA, MA, NJ, PA, RI

INTERNATIONAL REGULATION:

TSCA INVENTORY STATUS:

This product, or its components, are listed on, or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

CANADIAN INVENTORY STATUS: This product, or its components, are listed on, or are exempt from the Canadian Domestic Substance List (DSL).



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EINECS INVENTORY STATUS: This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).

AUSTRALIAN INVENTORY STATUS: Not Determined.

JAPAN INVENTORY STATUS: Not Determined

16. OTHER INFORMATION

	Health Hazard	Flammability	Physical Hazard	Instability
HMIS Classification	1	1	0	

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