
SAFETY DATA SHEET

1. Product and Company Identification

Product Name: NRI Alkylbenzene 300

Distributor: National Refrigerants of America Ltd.
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2. Hazard Identification

THIS PRODUCT IS CONSIDERED AS NON-HAZARDOUS

3. Composition/Information on Ingredients

Chemical Nature: Alkylbenzene refrigerant oil.

4. First Aid Measures

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water. Launder contaminated clothing. See doctor if irritation persists.

Eyes: Immediately flush eyes with large amounts of water for at least 15 minutes lifting eyelids occasionally to facilitate irrigation. See doctor if irritation persists.

Inhalation: Immediately remove to fresh air. If breathing has stopped, give artificial respiration. Remove material from eyes, skin and clothing.

5. Ingestion: If swallowed, get medical help immediately. ONLY induce vomiting if instructed to do so by a physician. Never give anything by mouth to an unconscious person. Take person, product container and MSD to nearest medical emergency centre.

6. Fire Fighting Measures

Flash Point: >175°C
Flammable Limits: Not Determined
Auto Ignition Temperature: >421°C

Extinguishing Media: Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Protection of the fire fighters: Wear a self-contained breathing apparatus and a protective suit.

Unusual or Explosive Hazard: None.

7. Accidental Release Measures

In case of accidental release, breakage or leakage ventilate the area. Avoid breathing vapour. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill. Wipe up or absorb on suitable material and shovel up. Prevent entry into drains and waterways. Avoid contact with skin, eyes or clothing.

8. Handling and Storage

Handling: Minimum feasible handling temperatures should be maintained.

Storage: Store in a cool, well-ventilated area and out of sunlight. Water contamination should be avoided.

9. Exposure Controls & Personal Protection

Potential Health Effects: Skin is the primary route of exposure.

Effects of Overexposure:

Eyes: Expected to cause no more than minor irritation. Avoid eye contact as good industrial practice.

Skin: Not a primary skin irritant but may cause skin irritation on repeated or prolonged contact.

Ingestion: May cause nausea. Not expected to be acutely toxic by ingestion.

Inhalation: Avoid breathing vapour or mist. Under normal use conditions this product is not an inhalation hazard. Prolonged exposure to vapours may cause dizziness and headaches.

There is no evidence that this product aggravates an existing medical condition.

Personal Protective Equipment

Skin Protection: Protective clothing such as coveralls or dustcoats should be worn. Launder or dry-clean when soiled. Gloves and boots resistant to chemicals and petroleum distillates required. Workers should wash their exposed skin several times daily with soap and water whilst working with the oil.

Remove and dry-clean or launder clothing soaked with this oil before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning to the potential hazards associated with handling contaminated clothing.

Respiratory Protection: Airborne concentrations should be kept to lowest levels possible. If vapour or mist is generated and the occupational exposure limit of the product, or any component of the product, is exceeded use the appropriate, approved air purifying or air-supplied respirator after determining the airborne concentration of the contaminant.

Occupational Exposure Limits: None established for this product

10. Physical and Chemical Properties

Appearance:	Clear to yellow liquid.
Physical State:	Liquid.
Vapour Pressure:	LT 0.001
Vapour Density:	Not determined
Viscosity:	26.4 – 30.2 cSt at 40°C
Odour:	Odourless
Solubility in Water:	Negligible
pH	Neutral
Boiling Point:	314°C
Melting/Freezing Point:	Not Determined
Density:	0.87 kg/l
Average Molecular Wt.	365 (Typical)
Other:	None

11. Stability and Reactivity

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

Incompatibility: May react with strong oxidising materials.

Hazardous Polymerisation: Will not occur.

Hazardous decomposition products: Normal combustion forms carbon dioxide and water vapour, incomplete combustion can produce carbon monoxide.

12. 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 gm/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).

Sensitisation: 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 anaemia in laboratory animals.

13. Ecological Information

96 hr. LC₅₀ Rainbow Trout (*Salmo gairdneri*) > 1000 mg/l. Practically non-toxic

96 hr. LC₅₀ Sheepshead Minnow (*Cyprinodon variegates*) > 1000 mg/l. Practically non-toxic

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

Potential to Bioaccumulation: This product is estimated to have a very slow rate of bioaccumulation.

14. Disposal Considerations

Prohibition: Do not allow the product to be released to the environment.

Destruction/Disposal: Disposed of at an approved special waste collection point.

Contaminated Packaging:

Container Destruction/Cleaning: Containers to be disposed of at an approved special waste collection point.

15. Transport Information

This product is considered as Non-Hazardous.

Air Transport (ICAO/IATA): Not regulated.

Sea Transport (IMDG): Not regulated.

Road Transport (ADR): Not regulated

16. Regulatory Information

Risk Phrases: No risk phrases.

Safety Phrases:

S24/25: Avoid contact with skin and eyes.

United Kingdom: Handle in accordance with relevant British Legislation e.g. Health and Safety at Work Act 1974, Environment Protection Act 1990.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the Safety Data Sheet. The user's attention is drawn to the possible existence of additional provisions, which complete these regulations. Refer to all applicable National, International and Local regulations or provisions.

17. Other Information

Uses: Lubricant

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