

SAFETY DATA SHEET

National PE68

Version 2.0

Revision Date: 10.09.2013



SAFETY DATA SHEET NATIONAL PE68

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1. Product Identifier

Product name: NATIONAL PE68
EC Number: Propriety Blend
REACH Registration Number:
CAS Number: Propriety Blend
If REACH registration numbers do not appear the substance is either exempt from registration, does not meet the minimum volume threshold for registration or the registration has not yet come due.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use: Refrigeration compressor lubricant
Advised Against: No specific uses advised against.
Note: This material should not be used for any other purpose than the intended use above without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

1.3. Details of the supplier of the safety data sheet

Company name:
National Refrigerants Ltd.
4 Watling Close
Sketchley Meadows Business Park
Hinckley LE10 3EZ
Tel: +44(0)1455 630790
Fax: +44(0) 1455 630791
Email: sds@nationalref.com

1.4. Emergency telephone number

Emergency Tel: +44(0) 1865 407333
24 Hour. English only.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance of mixture

Directives 67/458/EEC or 1999/45/EC: or This substance is not classified as hazardous according to Directive 67/548/EEC or 1999/45/EC.

2.2. Label elements

Regulation (EC) No. 1272/2008 This substance is not classified as hazardous according to Regulation No. 1272/2008/EC

Directives 67/458/EEC or 1999/45/EC: This substance is not classified as hazardous according to Directive 67/548/EEC or 1999/45/EC.

2.3. Other hazards

No data available.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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3.1. Substances

3.2 Mixtures

Hazardous Ingredients: Propriety blend of polyol esters. Not classified as hazardous.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Skin contact: Prolonged exposure may irritate the skin. Wash exposed skin and contact areas with soap and water. Remove contaminated clothing as soon as possible. If product gets under the skin seek immediate medical attention from a physician.

Eye contact: Hold eyelids apart and flush eyes with plenty of water. Contact physician if discomfort continues.

Ingestion: **Do not induce vomiting.** Immediately wash out mouth with clean water. Get medical advice.

Inhalation: Remove from further exposure and remove the source of contamination. Move the victim to fresh air and ensure airways are clear. If oil mist is inhaled, remove to fresh air and seek medical attention. If respiratory irritation, nausea, or unconsciousness occurs seek medical assistance.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: Continuous or repeated skin contact combined with poor personal hygiene may cause dermatitis like eczema or oil acne.

Eye contact: Exposure to eye is slightly irritating, but does not injure eye tissue.

Ingestion: Following ingestion and vomiting may cause severe and potential fatal chemical pneumonitis

Inhalation: Exposure to high concentrations of oil mist may cause irritation to the respiratory organs.

Delayed/immediate effects:

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

Immediate/special treatment: Advice to Physicians: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: Do not use water jet. Appropriate media includes Foam, Dry Powder, Carbon Dioxide. Water fog may be used to cool exposed containers.

5.2. Special hazards arising from the substance or mixture

Special hazards arising from the mixture Burning product or fluid may evolve irritating/noxious fumes. Smoke, fumes, nitrogen and sulphur oxides and carbon/inorganic products from incomplete combustion may be present. Evacuate area as soon as possible.

5.3. Advice for fire-fighters

Advice for fire-fighters: Use self-contained breathing apparatus. Use water to cool fire exposed containers. Use water carefully near exposed liquid to avoid frothing and splashing of hot liquid.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment, especially goggles: see section 8

6.2. Environmental precautions

Environmental precautions: Stop the source of leak or spill if you can do so safely.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: In case of small spills use inert absorbent material (e.g. Sand, sawdust or diatomaceous earth) to soak up the spilled product. Dispose of absorbent material in accordance with state or local regulations. Wash spill area with large amounts of water and detergent.

With larger spills dike the spill area for containment and recovery if possible. Place inert absorbent material onto the spillage. Prevent spill entering drains, waterways, sewers, rivers, basements etc. If a large quantity of this material enters the waterways contact the Environmental Protection Authority. In the event of a large spill or accidental release notify relevant authorities in accordance with all applicable local, state and national regulations.

6.4. Reference to other sections

Reference to other sections: Refer to Section 7 of SDS. Refer to Section 8 of SDS.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling requirements: Avoid contact with skin, eyes and clothing. Do not swallow.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: This product is hygroscopic and storage under dry nitrogen is recommended. Keep container tightly sealed when not in use. Store in cool dry, well-ventilated area, out of direct sunlight. Keep away from open flames and other ignition sources.

Suitable packaging: Store in original packaging only. Misuse of empty containers can be hazardous. Do not cut, weld, heat or drill containers. Residue in the container may ignite if exposed to heat. Do not expose container to open flames or excess heat. Always keep container closed and caps in place.

7.3. Specific end use(s)

Specific end use(s) No data available.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Component exposure limit		OSHA		ACGIH		Carcinogenic
Component	Units	TWA	STEL	TLV	STEL	
Ester (Polyol Ester)	Mg/m ³	N.D.	N.D.	N.D.	N.D.	No

The threshold limit value (Exposure Standards) for oil mist is listed as 5 mg/m³.

8.2. Exposure controls

Engineering measures: Use in well-ventilated area.

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- Respiratory protection:** Where vapours or oil mists are generated and exposure standards are exceeded the use of personal respiratory protection equipment for organic solvents and oil mist, meeting OSHA 1910.134 standard, or an adequate exhaust ventilation system is recommended.
- Hand protection:** Strongly recommend protective gloves, especially if there is going to be prolonged exposure. Impervious material such as nitrile, Viton or neoprene is recommended. Gloves should be removed immediately if there is any indication of degradation or chemical breakthrough.
- Eye protection:** Safety glasses with side shields or goggles are recommended.
- Skin protection:** Long sleeved clothing to minimize skin contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

State:	Liquid
Odour:	Oil (Faint)
Viscosity @ 40°C:	68 cSt
Viscosity t @ 100°C:	9.3 cSt
Flash Point:	258°C
Pour Point:	-39.0°C
Density @ 20°C:	0.980 g/ml
Solubility:	Soluble in most organic solvents.
Water solubility:	Negligible.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity: Stable under normal conditions of storage and handling.

10.2. Chemical stability

Chemical stability: Stable under normal conditions of storage and handling.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous polymerization will not occur.

10.4. Conditions to avoid

Conditions to avoid: Excessive heat or sources of ignition.

10.5. Incompatible material

Materials to avoid: Strong oxidizers.

10.6. Hazardous decomposition products

Hazardous decomposition products: Carbon dioxide, carbon monoxide and other hazardous organic products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicity data for a similar material is listed below:

Skin irritation: May cause irritation and possible dermatitis.
Eye irritation: Slight irritation.

SECTION 12. ECOLOGICAL INFORMATION

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12.1. Toxicity

No specific ecological data are available for this product.

12.2. Persistence and degradability

Persistence and degradability: No Data available.

12.3. Bio accumulative potential

Bio-accumulative potential: No Data available.

12.4. Mobility in soil

Mobility: No Data available.

12.5. Results of PBT and vPvB assessment

PBT identification: No Data available.

12.6. Other adverse effects

Other adverse effects: No Data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal operations: In case of small spills use inert absorbent material (e.g. Sand, sawdust or diatomaceous earth) to soak up the spilled product. Dispose of absorbent material in accordance with state or local regulations. Wash spill area with large amounts of water and detergent.

With larger spills dike the spill area for containment and recovery if possible. Place inert absorbent material onto the spillage. Prevent spill entering drains, waterways, sewers, rivers, basements etc. If a large quantity of this material enters the waterways contact the Environmental Protection Authority. In the event of a large spill or accidental release notify relevant authorities in accordance with all applicable local, state and national regulations.

Disposal of packaging: Dispose according to local or national regulations at a registered hazardous waste site.
N.B.

SECTION 14. TRANSPORT INFORMATION

14.1. ADR

UN Number: Not Applicable
Proper Shipping Name: Not Applicable
Class/Division: Not Applicable
Tunnel Code: Not Applicable
Hazard Identification Number: Not Applicable
Labelling ADR: Not Applicable
Further Information Not Applicable

14.2. IATA

UN Number: Not Applicable
Proper Shipping Name: Not Applicable
Class/Division: Not Applicable
Hazard Identification Number: Not Applicable
Further Information Not Applicable

14.3. IMDG

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UN Number: Not Applicable
Proper Shipping Name: Not Applicable
Class/Division: Not Applicable
Hazard Identification Number: Not Applicable
Further Information: Not Applicable

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environment regulations/legislation specific for the substance or mixture

This product is non-hazardous. The product contains no known carcinogens. No special warning labels are required under OSHA 29CFR 1910.1200. OSHA hazard warning not applicable for this product therefore no OSHA warnings would appear on the label. No EPA hazard classification code. All components used in the production of this product are TSCA approved.

15.2. Chemical Safety Assessment

No data available.

16. OTHER INFORMATION

Other information: This safety sheet is prepared in accordance with Commission Regulation (EU) No. 453/2010.
* Indicates text in SDS which has changed since the last revision.

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