Xaerus XR 532-3MAF

Material Safety Data Sheet

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name in English: XAERUS XR 532-3MAF

Synonyms: NONE

Product Codes: Same

Supplier: Global Refrigerants (S) Pte Ltd

Address: No.9 TUAS LINK 1, SINGAPORE 638587

Website: www.globalrefrigerants.com.sg

Email: msds@globalrefrigerants.com.sg

Telephone: +6568633983

Telefax: +6568636330

Emergency Phone: 989-486-8330

CHEMICAL NAME: TRADE SECRET

CHEMICAL FAMILY: Hydrotreated Mineral Oil

CHEMICAL FORMULA: NA

CAS NUMBER: NA

PRODUCT USE: INDUSTRIAL LUBRICANT

PREPARED BY: CHEMICALS BUSINESS GROUP

SECTION 2 - COMPOSITION/ INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>POLYOL ESTERS OF FATTY ACIDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS Number:</td>
<td>%WT</td>
</tr>
<tr>
<td>NA</td>
<td>&gt;99</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>PPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA PEL-TWA:</td>
<td>NA</td>
</tr>
<tr>
<td>OSHA PEL-STEL:</td>
<td>NA</td>
</tr>
<tr>
<td>OSHA PEL-CEILING:</td>
<td>NA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>MG/M³</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH TLV-TWA:</td>
<td>NA</td>
</tr>
<tr>
<td>ACGIH TLV-STEL:</td>
<td>NA</td>
</tr>
<tr>
<td>ACGIH TLV CEILING:</td>
<td>NA</td>
</tr>
</tbody>
</table>

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This material has no known hazards under applicable laws.

Routes of Entry:

EYES: May cause temporary irritation

SKIN: May cause temporary irritation

INGESTION: NA

INHALATION: NA

ACUTE HEALTH HAZARDS: NA

CHRONIC HEALTH HAZARDS: NA

MEDICAL CONDITIONS GENERALLY

CARCINOGENICITY OSHA: NA

ACGIH: NA

NTP: NA

IARC: NA

OTHER: NA
SECTION 4 – FIRST AID MEASURES

EYES: Flush eyes with water for at least 15 minutes. Remove contact lenses after 1-2 minutes of flushing. If irritation develops seek medical attention.

SKIN: Wash affected area with soap and water.

INGESTION: If swallowed and symptoms develop seek medical attention.

INHALATION: Move victim to fresh air. If symptoms persist, seek medical attention.

NOTES TO PHYSICIAN OR FIRST AID PROVIDER: NA

SECTION 5 - FIRE-FIGHTING MEASURES

<table>
<thead>
<tr>
<th>FLAMMABLE LIMITS IN AIR</th>
<th>UPPER</th>
<th>LOWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>(% BY VOLUME)</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

FLASH POINT:

| °F   | 446-597°F |
| °C   | 230=314°C |

METHOD USED: ASTM D-92

AUTOIGNITION TEMPERATURE:

| °F  | NA |
| °C  |    |

NFPA HAZARD CLASSIFICATION:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

OTHER:

HMIS HAZARD CLASSIFICATION:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

PROTECTION:

EXTINGUISHING METHOD: Dry chemical, CO2, Foam, water spray

SPECIAL FIREFIGHTING PROCEDURES: Self contained breathing apparatus and protective clothing

UNUSUAL FIRE AND EXPLOSION HAARDS: This material may burn, but will not ignite readily. If container is not properly cooled. It can rupture in the heat of a fire.

HAZARDOUS DECOMPOSITION PRODUCTS: Fumes, smoke, carbon monoxide, carbon dioxide

Notes: Low hazard, liquid can burn upon heating to elevated Temperatures.

SECTION 6 - ACCIDENTAL RELEASE MEASURES:

ACCIDENTAL RELEASE MEASURES: Absorb the material with inert absorbent and dispose of in Accordance with federal, state and local news.
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SECTION 7 – HANDLING AND STORAGE:
HANDLING AND STORAGE: NO Special precautionary measures should be needed under anticipated conditions to use
OTHER PRECAUTIONS: NA
NOTES: Ground containers when transferring to avoid static discharge

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION:
ENGINEERING CONTROLS: None Established
VENTILATION: Good ventilation typically 10 air changes per minute should be used/
RESPIRATORY PROTECTION: If vapour or mist is generated wear a NIOSH/MSHA approved organic vapor/mist respirator
EYE PROTECTION: Approved safety glasses or goggles
SKIN PROTECTION: Protective clothing to minimize contact, gloves
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NA
WORK HYGIENIC GUIDELINES: Follow standard safe industrial chemical handling practices.
EXPOSURE GUIDELINES: NA

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES:
APPEARANCE: Clear yellow liquid
ODOR: Odorless
PHYSICAL STATE: LIQUID
PH AS SUPPLIED: NA
PH (OTHER): NA
BOILING POINT: °F: > 570 °C: > 300
MELTING POINT: °F: NM °C: NM
FREEZE POINT: °F: NM °C: NM
VAPOR PRESSURE (MM HG): NM
VAPOR DENSITY (AIR=1): NM
SPECIFIC GRAVITY (H2O=1): 0.96 – 1.02
EVAPORATION RATE: NM
BASIS (=1)
SOLUBLITY IN WATER: NEGLIBLE
PERCENT SOLIDS BY WEIGHT: NA
PERCENT VOLATILE: NM
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**SECTION 10 – STABILITY AND REACTIVITY:**

STABLE: X UNSTABLE

STABILITY:

CONDITIONS TO AVOID (STABILITY) Temperatures above the boiling

IMCOMPATIBILITY (MATERIALS TO AVOID) Avoid contact with strong oxidizers

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: NA

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): NA

**SECTION 11 – TOXICOLOGICAL INFORMATION:**

TOXICOLOGICAL INFORMATION: Not expected to cause eye irritation OR SKIN IRRITATION

**SECTION 12 – ECOLOGICAL INFORMATION:**

FRESHWATER FISH TOXICITY: The acute LC50 is > 1000 mg/L based on component data.

**SECTION 13 – DISPOSAL CONSIDERATIONS:**

WASTE DISPOSAL METHOD: Dispose of in accordance with all federal, state, and local laws.

RCRA HAZARD CLASS: Follow RCRA Regulation 40 CFR 261

**SECTION 14 – TRANSPORT INFORMATION:**

US DEPARTMENT OF TRANSPORTATION

SHIPPING DESCRIPTION:

HAZARD CLASS: Not regulated

ID NUMBER: NA

PACKING GROUP: NA

LABEL STATEMENT: NA

WATER TRANSPORTATION:

SHIPPING DESCRIPTION:

HAZARD CLASS: NA

ID NUMBER: NA

PACKING GROUP: NA

LABEL STATEMENT: NA
**AIR TRANSPORTATION:**
**SHIPPING DESCRIPTION:**

- **HAZARD CLASS:** NA
- **ID NUMBER:** NA
- **PACKING GROUP:** NA
- **LABEL STATEMENT:** NA

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**SECTION 15– REGULATORY INFORMATION:**

**US FEDERAL REGULATIONS**

- **TSCA (TOXIC SUBSTANCE CONTROL ACT):** All components listed on the TSCA inventory
- **CERCLA (COMPREHENSIVE RESPONSE COMPENSATION AND LIABILITY ACT):** NA
- **SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**
- **311/312 HAZARD CATEGORIES:** NA
- **313 REPORTABLE INGREDIENTS:** NA

**STATE REGULATIONS:**

**INTERNATIONAL REGULATIONS:**