Xaerus XR 600 SERIES

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Material Safety Data Sheet

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name in English: XAERUS XR 600-Series
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: 989-860-7329
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>%WT</th>
<th>% VOL</th>
<th>SARA 313 REPORTABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkyl Benzene</td>
<td>&gt;99</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

OSHA PEL-TWA: NA
OSHA PEL-STEL: NA
OSHA PEL-CEILING: NA
ACGIH TLV-TWA: NA
ACGIH TLV-STEL: NA
ACGIH TLV CEILING: NA

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: May cause NAUSEA. Not expected to be acutely toxic.
INHALATION: Avoid breathing vapor or mist. Prolonged exposure to vapors may cause headaches or dizziness.

ACUTE HEALTH HAZARDS: NA
CHRONIC HEALTH HAZARDS: NA
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NA
CARCINOGENICITY OSHA: NA
ACGIH: NA
NTP: NA
IARC: NA
OTHER: NA

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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

FLAMMABLE LIMITS IN AIR

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

FLASH POINT:

| °F   | >302°F |
| °C   | >150°C |

METHOD USED: ASTM D-92

AUTOIGNITION TEMPERATURE:

| °F   | >644°F |
| °C   | >150°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

UNUSAL 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: > 572 °C: > 300
MELTING POINT: °F: NM °C: NM
FREEZE POINT: °F: NM °C: NM
VAPOR PRESSURE (MM HG): mmHg @20° C <0.1
VAPOR DENSITY (AIR=1): NM
SPECIFIC GRAVITY (H2O=1): 0.87
EVAPORATION RATE: NM
BASIS (=1)
SOLUBILITY IN WATER: NEGLIBLE
PERCENT SOLIDS BY WEIGHT: NA
PERCENT VOLATILE:

BY WEIGHT: °F: NM °C:

BY VOLUME: °F: NM °C:

VOLATILE ORGANIC COMPOUNDS:

WITH WATER: LBS/GAL NM

WITHOUT WATER: LBS/GAL NM

MOLECULAR WEIGHT NM

VISCOSITY: 41 – 110 cSt @104°F @40°C:

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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: Combustion FORMS CO2, CO, Water

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): NA

SECTION 11– TOXICOLOGICAL INFORMATION:

TOXICOLOGICAL INFORMATION: Not expected to cause eye irritation

(DRAIZE) believed to be between 3-5 (Rabbit)

Moderately irritating to skin (Maximum 8)

SECTION 12– ECOLOGICAL INFORMATION:

FRESHWATER FISH TOXICITY: Not measured

SECTION 13 – DISPOSAL CONSIDERATIONS:

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

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:
AIR TRANSPORTATION:

SHIPPING DESCRIPTION:

<table>
<thead>
<tr>
<th>HAZARD CLASS:</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID NUMBER:</td>
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</tr>
<tr>
<td>PACKING GROUP:</td>
<td>NA</td>
</tr>
<tr>
<td>LABEL STATEMENT:</td>
<td>NA</td>
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</table>

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**SECTION 15– REGULATORY INFORMATION:**

**US FEDERAL REGULATIONS**

<table>
<thead>
<tr>
<th>TSCA (TOXIC SUBSTANCE CONTROL ACT):</th>
<th>All components listed on the TSCA inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERCLA (COMPREHENSIVE RESPONSE COMPENSATION AND LIABILITY ACT):</td>
<td>NA</td>
</tr>
<tr>
<td>SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):</td>
<td>NA</td>
</tr>
<tr>
<td>311/312 HAZARD CATEGORIES:</td>
<td>NA</td>
</tr>
<tr>
<td>313 REPORTABLE INGREDIENTS:</td>
<td>NA</td>
</tr>
<tr>
<td>STATE REGULATIONS:</td>
<td></td>
</tr>
<tr>
<td>INTERNATIONAL REGULATIONS:</td>
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</table>