

### Xaerus XG 416 SERIES

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## Material Safety Data Sheet

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name in English:** XAERUS XG 416 Series

Synonyms: NONE Product Codes: Same

**Supplier:** Global Refrigerants (S) Pte Ltd

Address: No.9 TUAS LINK 1, SINGAPORE 638587

Website:www.globalrefrigerants.com.sgEmail:msds@globalrefrigerants.com.sg

**Telephone:** +6568633983 **Telefax:** +6568636330

CHEMICAL NAME: TRADE SECRET

CHEMICAL FAMILY: Synthetic Hydrocarbon

CHEMICAL FORMULA: NA
CAS NUMBER: 9003-13-8

PRPDUCT USE: INDUSTRIAL LUBRICANT
PREPARED BY: CHEMICALS BUSINESS GROUP

#### SECTION 2- COMPOSITION/ INFORMATION ON INGREDIENTS

INGREDIENT NAME Polypropylene glycol monobutyl ether

Name: CAS Number: %WT SARA 313 REPORTABLE

Polyprophylene glycol 9003-13-8 0-99 NA

Monobutyl ether

**PROPRIETARY** 0-20 NA

**ADDITIVES** 

PPM MG/M3

OSHA PEL-TWA: 5

OSHA PEL-STEL: NA
OSHA PEL-CEILING: NA

ACGIH TLV-TWA: 5
ACGIH TLV-STEL: 10

ACGIH TLV CEILING; NA

#### **SECTION 3 - HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** 

Routes of Entry: Inhalation, Dermal, Eyes

**EYES:** Essentially nonirritating to eyes.

SKIN: Brief contact is essentially nonirritating to skin.

SKIN CONTACT: Prolonged skin contact is unlikely to result in

absorption of harmful amounts.

**INGESTION:** Very low toxicity if swallowed. Harmful effects not

Anticipated from swallowing small amounts.

**INHALATION:** At room temperature, exposure to vapour is minimal due

to low volatility; single exposure is not likely to be hazardous.



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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: NO EMERGENCY MEDICAL TREATMENT NECESSARY

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

attention

NOTES TO PHYSICIAN OR FIRST

No specific antidote. Treatment of exposure should be directed at

the control of symptoms and the clinical condition to the pantient.

#### **SECTION 5- FIRE-FIGHTING MEASURES**

FLAMMABLE LIMITS IN AIR UPPER: NA
(% BY VOLUME) LOWER NA

**FLASH POINT:** 

°F 446 – 464 °C 230 – 240 METHOD USED: ASTM D-92

**AUTOIGNITION TEMPERATURE:** 

°F NA °C NA

NFPA HAZARD CLASSIFICATION:

HEALTH: 0 FLAMMABILITY: 1 REACTIVITY: 0

OTHER:

**HMIS HAZARD CLASSIFICATION:** 

HEALTH: 0 FLAMMABILITY: 1 REACTIVITY: 0

**PROTECTION:** 

**EXTINGUISHNG 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.

 $\textbf{HAZARDOUS DECOMPOSITION PRODUCTS:} \ \textbf{Fumes, smoke, carbon monoxide , carbon dioxide}$ 

NOTES: Low hazard liquid can burn upon heating to elevated

Temperatures. Isolated immediate hazard area, keep authorized personnel out. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES:

ACCIDENTAL RELEASE MEASURES: Absorb the material with inert absorbent and dispose of in

In accordance with federal, state and local laws

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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:** 

VENTILATION: Good ventilation typically 10 air changes per minute should be used/

RESPIRATORY PROTECTION: Under intended handling conditions, no respiratory protection should be

Needed

EYE PROTECTION: Approved safety glasses or goggles

SKIN PROTECTION: Protective clothing to minimize contact, gloves

HAND PROTECTION: Use gloves chemically resistant to this material when prolonged or

frequently repeated contact could occur. Examples of preferred glove barrier materials include:butyl rubber. Ethyl vinyl alcohol laminated (EVAL). Examples of acceptable glove (PVC or VINYL). NITRY/BUTADIEND rubber (NITRILE or NBR). Notice: The selection of a specific glove for a particular Application and duration of use in a workplace should also take into account all relevant workplace factors such as but not limited to: other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection). Potential body reactions to glove materials, as wellas the instructions/specifications provided by the

glove supplier.

OTHER PROTECTIVE

CLOTHING OR EQUPMENT: NA

WORK HYGIENIC GUIDELINES: Follow standard safe industrial chemical handling practices.

EXPOSURE GUIDELINES: NA

NOTES: NONE

## **SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES:**

APPEARANCE: Clear to slightly yellow liquid

ODOR: Mild
PHYSICAL STATE: LIQUID
PH AS SUPPLIED: NA
PH (OTHER): NA

BOILING POINT: °F: > 392 MELTING POINT: °F: NM

VAPOR PRESSURE (MM HG:) mmHg @20° C <0.01 VAPOR DENSITY (AIR=1) >1

**SPECIFIC GRAVITY (H20=1)** 0.99 - 1.00



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**EVAPORATION RATE**: NM

BASIS (=1)

SOLUBLITY IN WATER:

PERCENT SOLIDS BY WEIGHT:

PERCENT VOLATILE:

NA

NIL

BY WEIGHT: °F: NM °C: BY VOLUME: °F: NM °C:

**VOLATILE ORGANIC COMPOUNDS:** 

WITH WATER:

WITHOUT WATER:

LBS/GAL

NM

MOLECULAR WEIGHT

VISCOSITY @ 40°C:

LBS/GAL

NM

NM

68-220

## **SECTION 10- STABILITY AND REACTIVITY:**

STABLE: X UNSTABLE

**STABILITY:** 

CONDITIONS TO AVOID (STABILITY)

IMCOMPATIBILITY (MATERIALS TO AVOID)

HAZARDOUS DECOMPOSITION OR BY

Excessive heat, high energy sources of ignition

Avoid contact with strong oxidizers, acids and bases

**PRODUCTS:** Combustion can yield carbon, nitrogen, sulphur,

Phosphorus and zinc oxides

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): NA

# **SECTION 11- TOXICOLOGICAL INFORMATION:**

TOXICOLOGICAL INFORMATION: INGESTION: LD20 Rat, female 34, 200 mg/kg

SKIN ABSORPTION: LD50, Rabbit, male > 19,940 mg/kg LD50, Rabbit, female > 15950 mg/kg

**NOTES:** Carcinogenicity, developed toxicity and reproductive

Toxitcity: No relevant information found

### **SECTION 12- ECOLOGICAL INFORMATION:**

ECOTOXICITY: Material is slightly toxic to aquatic organisms on an acute basis

(LC50/EC50 between 10 and 100 mg/L in the mosensitive specifies tested).

NOTES: OECD Biodegradation Tests: Material is not considered readily

biodegradable.



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## **SECTION 13 – DISPOSAL CONSIDERATIONS:**

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

Product is suitable for burning in an enclosed controlled burner

for fuel value.

Do not dump into any sewers, on the ground, or into any body or

Water.

NA

RCRA HAZARD CLASS:

## **SECTION 14 - TRANSPORT INFORMATION:**

**US DEPARTMENT OF TRANSPORTATION** 

SHIPPING DESCRIPTION: Not regulated

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

**WATER TRANSPORTATION:** 

SHIPPING DESCRIPTION: Not regulated

HAZARD CLASS: NA
ID NUMBER: NA
PACKING GROUP: NA

**LABEL STATEMENT:** 

AIR TRANSPORTATION:

SHIPPING DESCRIPTION: Not regulated

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

## **SECTION 15- REGULATORY INFORMATION:**

**US FEDERAL REGULATIONS** 

TSCA (TOXIC SUBSTANCE CONTROL ACT): All components listed on the TSCA inventory

NA

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS

AND REAUTHORIXATION ACT):

311/312 HAZARD CATEGORIES: NA
313 REPORTABLE INGREDIENTS: NA
STATE REGULATIONS: NA

INTERNATIONAL REGULATIONS:

WHMIS HAZARD CLASS

HAZARDOUS DECOMPOSITION OR BY

Not regulated