

## EMKAROX PAG 100

Material Safety Data Sheet

Effective date: 2004-08-23 20:53:47 Version: 1

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	<b>EMKAROX PAG 100</b>
<b>Product Use</b>	Lubricant
<b>Address/Telephone number</b>	Uniqema Uniqema Corporate Center 1000 Uniqema Boulevard New Castle, DE 19720-2790 Uniqema Operator (Mon.-Fri., 8:15 AM - 4:30 PM Eastern): (302) 574-5000 Medical Emergency (24 hr.): (888) 456-6218 Transportation Emergency Involving Chemical Spills, Leaks, Fires, or Accidents (24 hr.): (800) 424-9300

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Component Name</b>	<b>CAS Number</b>	<b>% (w/w)</b>	<b>WHMIS Hazardous</b>
Polyoxoalkylene glycol ether	---	60-100	No
Tricresyl phosphate (<0.1% ortho isomer)	1330-78-5	1-1.5	No

Ingredients not precisely identified are proprietary or nonhazardous.

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Values are not product specifications.

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### **3. HAZARDS IDENTIFICATION**

#### **Emergency Overview**

<b>Color</b>	Colorless
<b>Form</b>	Liquid
<b>Odor</b>	characteristic odor

REPEATED/PROLONGED CONTACT MAY CAUSE SKIN IRRITATION.  
MAY CAUSE EYE IRRITATION  
EXCESSIVE INHALATION EXPOSURE MAY CAUSE IRRITATION OF RESPIRATORY PASSAGES.  
MAY BE HARMFUL IF SWALLOWED.

No toxicity information is available on this specific preparation; this health hazard assessment is based on information that is available on the properties of its components.

#### **Routes of Exposure** Eye contact Skin contact Inhalation

<b>Eye contact</b>	This material may irritate human eyes following contact.
<b>Skin contact</b>	Short contact periods with human skin are not usually associated with skin irritation. Repeated and/or prolonged contact may cause irritation. This product will probably not be absorbed through human skin.
<b>Inhalation</b>	This material may cause irritation following inhalation. No toxic effects are known to be associated with inhalation of this material.
<b>Ingestion</b>	In humans, irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion of this product.
<b>Other</b>	This material may be harmful if swallowed. Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.

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### **4. FIRST AID MEASURES**

<b>Eye contact</b>	Immediately flush with plenty of water for at least 15 minutes. If redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel.
<b>Skin contact</b>	Wash material off of the skin with plenty of soap and water. If redness, itching, or a burning sensation develops, get medical attention.
<b>Inhalation</b>	Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. Give one or two glasses of water to drink and refer to medical personnel or take direction from either a physician or a poison control center. Never give anything by mouth to an unconscious person.

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### **5. FIRE-FIGHTING MEASURES**

<b>Flash Point (°F)</b>	473 (open cup)
<b>Flash Point (°C)</b>	245 (open cup)
<b>Autoignition Temperature (°F)</b>	No data.
<b>Autoignition Temperature (°C)</b>	No data.
<b>Flammable Limits</b>	No data.
<b>Extinguishing Media</b>	Water fog, alcohol foam, carbon dioxide, dry chemical.
<b>Special fire-fighting protective equipment</b>	A self contained breathing apparatus and suitable protective clothing must be worn in fire conditions.
<b>Fire and explosion hazards</b>	None known.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	No data.

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**Sensitivity to static discharge** No data.

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### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** Refer to section 8 for proper personal protective equipment.

**Steps to be taken in case material is released or spilled** Contain spill.  
Soak up material with absorbent and shovel into a chemical waste container.  
Keep out of sewers and drains.

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### 7. HANDLING AND STORAGE

**Handling** Prevent eye contact.  
Avoid breathing this material.  
Do not swallow.

**Storage** Store in original containers.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure limits

##### Ontario

**Component Name**

Not applicable

**Exposure limits**

**Notes**

##### British Columbia

**Component Name**

Not applicable

**Exposure limits**

**Notes**

##### Quebec

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Component Name	Exposure limits	Notes
Not applicable		

Alberta Component Name	Exposure limits	Notes
Not applicable		

Mannitoba Component Name	Exposure limits	Notes
Not applicable		

New Brunswick Component Name	Exposure limits	Notes
Not applicable		

Saskatchewan Component Name	Exposure limits	Notes
Not applicable		

Yukon Component Name	Exposure limits	Notes
Not applicable		

<b>Engineering controls</b>	Provide adequate ventilation.
<b>Eye protection</b>	Chemical tight goggles.
<b>Protective clothing</b>	Impervious gloves.
<b>Respiratory protection</b>	Respiratory protection is not normally needed if controls are adequate.
<b>Other</b>	Eyewash and safety shower easily accessible to the work area.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Color</b>	Colorless
<b>Form</b>	Liquid
<b>Odor</b>	characteristic odor
<b>pH</b>	No data.
<b>Boiling Point (°F)</b>	No data.
<b>Boiling Point (°C)</b>	No data.

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Flash Point (°F)	473 (open cup)
Flash Point (°C)	245 (open cup)
Autoignition Temperature (°F)	No data.
Autoignition Temperature (°C)	No data.
Flammable Limits	No data.
Explosive Properties	No data.
Oxidizing Properties	No data.
Vapor Pressure (mmHg)	< 5.0000
Vapor Density	No data.
Specific Gravity	1.027
Solubility (water)	Insoluble
Solubility (other)	No data.
Partition Coefficient	No data.
Kinematic viscosity(40°C ) (mm²/S)	100.0
Pour Point (°F)	<-40
Pour Point (°C)	<-40

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## 10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Materials to avoid	Strong oxidizing agents.
Conditions to avoid	None known.
Hazardous decomposition products	Carbon dioxide, carbon monoxide.
Hazardous polymerization	Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

No available information.

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**Toxicologically synergistic products**                      None known.

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### **12. ECOLOGICAL INFORMATION**

No available information.

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### **13. DISPOSAL CONSIDERATIONS**

<b>Disposal method</b>	Disposal should be in accordance with local, state or national legislation.
<b>Container disposal</b>	Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.

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### **14. TRANSPORT INFORMATION**

**TDG (Transportation of Dangerous Goods):**  
Not regulated.

**Department of Transportation:**  
Not regulated.

Not classified in RID/ADR - ADNR - IMDG - ICAO/IATA-DGR.

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### **15. REGULATORY INFORMATION**

#### **Inventory Status**

<b>USA</b>	Compliant.
<b>Canada</b>	Compliant.
<b>China</b>	Compliant.
<b>Korea</b>	Compliant.
<b>Philippines</b>	Compliant.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**WHMIS Classification** Noncontrolled (Nonhazardous).

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### **16. OTHER INFORMATION**

We assigned NFPA ratings and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.

#### **HMIS Information**

<b>Health</b>	1
<b>Flammability</b>	1
<b>Physical Hazards</b>	0

The HMIS ratings displayed above are from the HMIS III Third Edition. There have been significant changes made to the system. "Physical hazard" stands for physical hazard as defined in the OSHA Hazard Communication Standard and replaces the former code for reactivity. For a more detailed explanation of the system and the ratings, please contact our Product Safety and Regulatory Affairs group.

#### **NFPA Information**

<b>Health</b>	1
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<b>Flammability</b>	1
<b>Reactivity</b>	0

This information is intended solely for the use of individuals trained in the particular hazard rating system.

The following sections contain revisions or new statements:

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