



## Material Safety Data Sheet

### OAK PROTECT® 440

### CORROSION PREVENTIVE

**DATE EFFECTIVE:** 01-10-2012

#### 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer:** CIMCOOL® Industrial Products LLC  
3000 Disney Street  
Cincinnati , OH 45209 United States

**Emergency:** Telephone (USA): 1-800-424-9300 (CHEMTREC)  
Telephone (OUTSIDE USA): 1-703-527-3887 (CHEMTREC)

**General Information:** Telephone: 1-513-458-8199

**Generic Name:** Corrosion Preventive

#### 2 EMERGENCY INFORMATION

Product is alkaline. Product is a primary eye irritant. Product may be a primary skin irritant. Highway spills could result in slippery conditions. No other significant health effects are associated with this material.

#### 3 POTENTIAL HEALTH EFFECTS OF DIRECT EXPOSURE

##### Product

**Inhalation:** Extended exposure to mist may cause upper respiratory irritation.

**Eye Contact:** Product is a primary eye irritant.

**Skin Contact:** Product may be a primary skin irritant.

**Ingestion:** Not orally toxic.

##### Medical Conditions generally aggravated by exposure

May aggravate existing skin irritation where further defatting or skin penetration could occur.

Skin irritation (redness and dryness of hands) may be experienced when the product has been contaminated by certain oils or by dissolved metals. When problems occur, use of oil-resistant barrier creams may be a temporary control measure. Contact CIMCOOL® Industrial Products LLC Technical Services at 1-513-458-8199 for specific recommendations.

When used in applications generating high levels of mist, operator exposure can be minimized by proper ventilation, use of mist collectors or splash guards, as appropriate. If there is doubt about actual mist levels present, monitoring should be conducted. Contact CIMCOOL® Industrial Products LLC at 1-513-458-8199 for specific recommendations.

Repeated excessive exposures to high amounts of triethanolamine may cause liver and kidney effects.

**Carcinogen Listings:** NTP: No IARC: No OSHA: No

## **Signs and symptoms of exposure**

### **Acute**

Eye injury may result from contact with product. Skin irritation can result from improper use and handling of product.

## **4 EMERGENCY AND FIRST AID PROCEDURES**

### **Eyes**

In case of eye contact, flush immediately with running water for at least 15 minutes, and get prompt medical attention.

### **Skin Contact**

For skin contact flush with large amounts of water while removing contaminated clothing. Remove contaminated shoes and clothing and launder before reuse. If irritation persists, get medical attention.

### **Ingestion**

If the material is swallowed, DO NOT INDUCE VOMITING. Immediately contact a physician and obtain treatment. Do not give liquids. Swallowing small quantities of product may cause nausea, diarrhea or abdominal distress.

### **Inhalation**

Inhalation can occur in applications where high mist levels are generated. OSHA has set a PEL of 15 mg/m<sup>3</sup> for any airborne particulate as a nuisance level of exposure. NIOSH has set a REL of 0.5 mg/m<sup>3</sup> for metalworking fluid mist. If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention.

## **5 CONTROL MEASURES**

### **Respiratory protection**

In metalworking fluid applications where time-weighted exposures are 0.5 to 5 mg/m<sup>3</sup>, mist reduction through improved ventilation, mist collection or process modification is recommended by NIOSH. Where this is not possible, NIOSH recommends the use of any air purifying, half-mask respirator including a disposable respirator, equipped with any P- or R-series particulate filter. If the average exposure will exceed 5 mg/m<sup>3</sup>, NIOSH recommends use of a powered, air-purifying respirator equipped with a hood or helmet and a HEPA filter. If respiratory problems are present when mist levels are < 0.5 mg/m<sup>3</sup>, respiratory protection should be based on the individual recommendation of a qualified health care provider.

### **Caution**

The appropriate use and type of respirator is dependent upon use of the product and local operating conditions.

### **Ventilation**

For most applications, adequate shop ventilation is needed. However, when high mist levels are generated or where machines are close together or ventilation is inadequate, operators may experience respiratory irritation. For such applications, use of splash guards or mist collectors is recommended.

### **Eye protection**

Proper metalworking plant eye protection required when handling product.

### **Other protective clothing or equipment**

Use effective metalworking plant protective clothing as appropriate.

### **Work / Hygiene Practices**

Good personal hygiene should always be followed.

### **Protective Gloves**

Impervious gloves, such as nitrile gloves, are recommended when handling product.

## 6 HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

These ingredients may contribute to the acute product hazards listed under the Potential Health Effects section. Other substances, not hazardous under the OSHA Hazard Communication Standard, may be present. Further composition information may be available to health professionals as provided in the Standard.

Component	CAS #	Percent
TRIETHANOLAMINE	102-71-6	1 - 5
PETROLEUM SULFONIC ACID, SODIUM SALT	68608-26-4	1 - 5
CALCIUM PETROLEUM SULFONATE	61789-86-4	1 - 5

## 7 FIRE AND EXPLOSION HAZARD DATA

### Extinguishing Media

Chemical foam, carbon dioxide, or dry chemical

### Hazardous Combustion Products

Smoke, fumes, and oxides of carbon

**Flash Point:** Not Applicable

**Lower Explosive Limit:** Not Applicable

**Upper Explosive Limit:** Not Applicable

### HMIS RATINGS

Health 1

Flammability Classification 0

Reactivity 0

### NFPA RATINGS

Health 1

Flammability Classification 0

Reactivity 0

## 8 ACCIDENTAL RELEASE MEASURES

Contain the spill, collect on absorbent material, and discard as dictated by Federal, state and local regulations that may apply. Flush area thoroughly with water.

**Reportable Quantity:** None

## 9 WASTE DISPOSAL

### For Used Product

Disposal procedures must comply with local, county, state and Federal regulations. Contact CIMCOOL® Industrial Products LLC at 1-513-458-8199 for assistance.

### For Unused Product

Contact CIMCOOL® Industrial Products LLC at 1-513-458-8199 for assistance.

### Empty Containers

Empty containers will contain a residue which is not considered a hazardous waste under RCRA regulations. Rinse thoroughly and properly dispose of containers.

## 10 HANDLING AND STORAGE

Avoid contact of product with eyes or skin. Wash thoroughly after handling. Do not swallow. Do not store product in direct sunlight or elevated temperatures. Use only as recommended by CIMCOOL® Industrial Products LLC . If frozen, product separates. Thaw completely at room temperature and stir thoroughly prior to use.

### Other Precautions

None

## 11 PHYSICAL / CHEMICAL CHARACTERISTICS

<b>Boiling Point:</b>	212 °F (100 °C)
<b>Specific Gravity:</b>	1
<b>Solubility (H2O):</b>	100 % Miscible
<b>Volatile Organic Content (by ASTM D2369):</b>	0 %
<b>pH (Concentrate):</b>	9.0
<b>Recommended Starting Dilution:</b>	100 % Use Undiluted
<b>Appearance/Odor:</b>	Opaque/Chemical

## 12 REACTIVITY

### Stability

Stable under normal conditions.

### Conditions to avoid

Use as directed.

### Materials to avoid

Avoid contact with strong acids or oxidizers to product.

### Hazardous Polymerization

Will not occur.

### Combustion Products

Smoke, fumes, and oxides of carbon

## 13 TRANSPORTATION INFORMATION

### BY LAND

#### Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101)

Not a Hazardous Material

### BY AIR OR VESSEL

#### Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101)

Not a Hazardous Material

## 14 REGULATORY INFORMATION

### EXPOSURE GUIDELINES

<b>REGULATED MATERIAL</b>	<b>NIOSH REL</b>	<b>OSHA PEL</b>	<b>OSHA STEL</b>	<b>ACGIH TLV</b>	<b>ACGIH STEL</b>
TRIETHANOLAMINE				5 mg/m <sup>3</sup>	
METALWORKING FLUID MIST	0.5 mg/m <sup>3</sup>				

**CERCLA**

No components of this product are present at levels which require reporting under 40 CFR 302.4.

**EPCRA (SARA) TITLE III Extremely Hazardous Substances (302):** None

**HAZARDOUS SUBSTANCES (311/312)**

Product is a hazardous substance as defined under the OSHA Hazard Communication Standard and may be reportable under the provisions of SARA Sections 311 and 312.

**HAZARD CATEGORIES**

**Acute Health:** Yes

**Chronic Health:** No

**Fire:** No

**Sudden Release of Pressure:** No

**Reactive:** No

**RCRA**

Product does not meet the definition of a hazardous waste as defined under 40 CFR 261. Each facility should assess each waste stream to determine if the used fluid should be treated as a hazardous waste.

**TSCA**

The ingredients of this product are on the TSCA inventory.

**STATE RIGHT TO KNOW**

Many states have enacted Community Right-To-Know laws which require information beyond that mandated by federal laws. Since some of these laws are inconsistent with the federal laws, the information in this sheet may not fully meet the requirements of every state.

**California South Coast Air Quality Management District (SCAQMD) Rule 1144 (VOC Emissions)**

This product is subject to SCAQMD Rule 1144; it is compliant and may be sold and used in the SCAQMD. The VOC content of the product is 0 g/L, measured by ASTM Method E-1868-10. This product has a specified VOC limit of 50 g/L.

**TOXIC SUBSTANCES (313)**

<b>Component</b>	<b>CAS #</b>	<b>Max %</b>	<b>Comments</b>
None		%	

## **GLOSSARY OF ABBREVIATIONS**

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds

### **Disclaimer**

NOTE: The opinions expressed herein are those of qualified experts within CIMCOOL® Industrial Products LLC and of their suppliers. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and of these opinions and the condition and use of the product are not within the control of CIMCOOL® Industrial Products LLC , it is the user's obligation to determine the conditions of safe use of the product.