



## Material Safety Data Sheet

### OAKWASH® DFC 2025

#### HIGHLY ALKALINE CLEANER CONCENTRATE

DATE EFFECTIVE: 10-12-2007

#### 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer:** Oak International, Inc.  
1160 White Street  
Sturgis, MI 49091 USA

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

**General Information:** Telephone: 1-269-651-9790

**Generic Name:** Water Soluble Floor Cleaner Concentrate

#### 2 EMERGENCY INFORMATION

Product is strongly alkaline. Product is corrosive to skin and eyes. Highway spills could result in slippery conditions. No other significant health effects are associated with this material.

#### 3 POTENTIAL HEALTH EFFECTS OF DIRECT EXPOSURE

|                      | <b>Product</b>                | <b>Product at Use Dilution</b>                                      |
|----------------------|-------------------------------|---|
| <b>Inhalation:</b>   | Not Applicable                | Extended exposure to mist may cause upper respiratory irritation.   |
| <b>Eye Contact:</b>  | Product is corrosive to eyes. | Product at use dilution may be a primary eye irritant.              |
| <b>Skin Contact:</b> | Product is corrosive to skin. | Product may be a primary skin irritant.                             |
| <b>Ingestion:</b>    | Not orally toxic.             | Swallowing small quantities may cause diarrhea, nausea or vomiting. |

##### Medical Conditions generally aggravated by exposure

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

Mild skin irritation (redness and dryness of hands) may be experienced when the diluted product has been contaminated by certain oils, by dissolved metals, or when mix ratio is too strong. When problems occur, use of water-resistant barrier creams may be a temporary control measure. Contact Oak International, Inc. Technical Services at 1-269-651-9790 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 Oak International, Inc. at 1-269-651-9790 for specific recommendations.

**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

Swallowing small quantities of diluted product may cause nausea, diarrhea or abdominal distress. Dilute by drinking water followed by fruit juice or vinegar.

### 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 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, normal shop ventilation is adequate. 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 concentrate.

### 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 concentrate.

## 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.

| <b>Component</b>   | <b>CAS #</b> | <b>Percent</b> |
|--|--------------|----------------|
| DIETHYLENE GLYCOL MONOBUTYL ETHER<br>(SARA 313 Reportable) | 112-34-5     | 3 - 7          |
| NONYLPHENOXYPOLY(ETHOXY) ETHANOL                           | 9016-45-9    | 1 - 5          |
| SODIUM METASILICATE  | 6834-92-0    | 1 - 5          |
| Sodium Tripolyphosphate                                    | 7758-29-4    | 1 - 5          |
| SODIUM XYLENE SULFONATE                                    | 1300-72-7    | 1 - 5          |

## 7 FIRE AND EXPLOSION HAZARD DATA

### Extinguishing Media

Not Applicable

### 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 3

Flammability Classification 0

Reactivity 0

### NFPA RATINGS

Health 3

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. If pre-treatment is needed, ultrafiltration, emulsion breaking or evaporation may be used. Contact Oak International, Inc. at 1-269-651-9790 for assistance.

### For Unused Product

Product is a hazardous waste as defined under 40 CFR 261. Contact Oak International, Inc. at 1-269-651-9790 for assistance.

### Empty Containers

Empty containers will contain a residue which is considered a hazardous waste under RCRA regulations.

## 10 HANDLING AND STORAGE

Avoid all contact of product with eyes or skin. Wash thoroughly after handling. Do not swallow. Do not store product concentrate in direct sunlight or elevated temperatures. Use only as recommended by Oak International, Inc. . Protect from freezing.

### Other Precautions

Not applicable.

## 11 PHYSICAL / CHEMICAL CHARACTERISTICS

|  |                         |
|--|-------------------------|
| <b>Boiling Point:</b>                            | 212 °F (100 °C)         |
| <b>Specific Gravity:</b>                         | 1.07                    |
| <b>Evaporation Rate:</b>                         | Like water when diluted |
| <b>Solubility (H<sub>2</sub>O):</b>              | 100 %                   |
| <b>Volatile Organic Content (by ASTM D2369):</b> | 4 %                     |
| <b>pH (Concentrate):</b>                         | 13.0                    |
| <b>pH (Mix):</b>                                 | 11-12 @ 5%              |
| <b>Appearance/Odor:</b>                          | Clear/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)

Corrosive liquid, basic, inorganic, n.o.s. (Contains: Sodium Metasilicate)

**Hazard Class (49 CFR 172.101):** 8

**Identification Number:** UN3266

**Packaging Group:** II

**U.S. Harmonized Tariff Code:** 3402.90.5050

### BY AIR OR VESSEL

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

Corrosive liquid, basic, inorganic, n.o.s. (Contains: Sodium Metasilicate)

**Hazard Class (49 CFR 172.101):** 8

**Identification Number:** UN3266

**Packaging Group:** II

## 14 REGULATORY INFORMATION

### 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 concentrate meets the definition of a hazardous waste as defined under 40 CFR 261.

### 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.

### Toxic Substances (313)

| Component                        | CAS #    | Max % | Comments |
|----------------------------------|----------|-------|----------|
| Diethylene Glycol Monobutylether | 112-34-5 | 7%    |          |

## **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 Oak International, Inc. 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 Oak International, Inc. , it is the user's obligation to determine the conditions of safe use of the product.