

# Material Safety Data Sheet

## eOx, Inc. Environmental Technologies

|  |   |  |               |              |                  |               |  |   |
|--|---|--|---------------|--------------|------------------|---------------|--|---|
| <b>1</b>   | <b>Product Name:</b>  | <b>HDAL</b>  |               |              |                  |               |  |   |
|  | <b>Product Code:</b>  | <b>23984M2</b>   |               |              |                  |               |  |   |
|  | <b>Purpose</b><br><b>Manufacturer Identification</b>  | <ul style="list-style-type: none"> <li>▶ Cleaner for industrial use.</li> <li><u>Produced in the EC.</u><br/>1e Lulofsdwarsstraat 117, 2521 AZ, The Hague, Netherlands<br/>Tel: +31 703 807 376 Fax :+31 703 841 476</li> <li><u>Distributed by eOx, Inc.</u><br/>4415, Saugus Ave, Ste 22, Sherman Oaks, CA 91403, USA<br/>Phone: +1-949-350 2620, Fax: +1 818 788 0126<br/>Email: <a href="mailto:info@eOxet.com">info@eOxet.com</a></li> </ul>  |               |              |                  |               |  |   |
| <b>2</b>   | <b>Composition/Information on Elements</b><br><b>Hazardous components:</b>  | <b>% Weight</b>  | <b>CAS-nr</b> | <b>EC-nr</b> | <b>R-wording</b> | <b>Symbol</b> |  |   |
|  | Sodium hydroxide  | >2 < 5   | 1310-73-2     | 215-185-5    | 34               | Xi            |  |   |
| <b>3</b>   | <b>Hazards Information / Risks</b>  | <ul style="list-style-type: none"> <li>▶ 34 Causes burns.</li> </ul>   |               |              |                  |               |  |   |
| <b>4</b>   | <b>First Aid Measures</b>   | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%; vertical-align: top;">           General indications<br/>           After Inhalation<br/>           After Skin Contact<br/>           After Eye Contact<br/>           After Ingestion<br/>           Directions for the Doctor         </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>▶ This product can irritate the eyes and the skin.</li> <li>▶ None</li> <li>▶ Rinse with a large amount of water</li> <li>▶ Rinse with plenty of water</li> <li>▶ Rinse the mouth with water, if large quantities are swallowed seek medical advice</li> </ul> </td> </tr> </table> |               |              |                  |               | General indications<br>After Inhalation<br>After Skin Contact<br>After Eye Contact<br>After Ingestion<br>Directions for the Doctor | <ul style="list-style-type: none"> <li>▶ This product can irritate the eyes and the skin.</li> <li>▶ None</li> <li>▶ Rinse with a large amount of water</li> <li>▶ Rinse with plenty of water</li> <li>▶ Rinse the mouth with water, if large quantities are swallowed seek medical advice</li> </ul> |
| General indications<br>After Inhalation<br>After Skin Contact<br>After Eye Contact<br>After Ingestion<br>Directions for the Doctor | <ul style="list-style-type: none"> <li>▶ This product can irritate the eyes and the skin.</li> <li>▶ None</li> <li>▶ Rinse with a large amount of water</li> <li>▶ Rinse with plenty of water</li> <li>▶ Rinse the mouth with water, if large quantities are swallowed seek medical advice</li> </ul> |  |               |              |                  |               |  |   |
| <b>5</b>   | <b>Fire Fighting Measures</b>   | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%; vertical-align: top;">           Suitable Extinguishing Media<br/>           Unsuitable Extinguishing Media<br/>           Fire Fighting Instructions         </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>▶ Product does not burn</li> <li>▶ none</li> <li>▶ n.a.</li> </ul> </td> </tr> </table>   |               |              |                  |               | Suitable Extinguishing Media<br>Unsuitable Extinguishing Media<br>Fire Fighting Instructions                                       | <ul style="list-style-type: none"> <li>▶ Product does not burn</li> <li>▶ none</li> <li>▶ n.a.</li> </ul>   |
| Suitable Extinguishing Media<br>Unsuitable Extinguishing Media<br>Fire Fighting Instructions                                       | <ul style="list-style-type: none"> <li>▶ Product does not burn</li> <li>▶ none</li> <li>▶ n.a.</li> </ul>   |  |               |              |                  |               |  |   |
| <b>6</b>   | <b>Accidental Spill or Release Measures</b>   | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%; vertical-align: top;">           Personal Precautions<br/>           Environmental Precautions<br/>           Cleaning directions         </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>▶ Wear eye protection</li> <li>▶ Product may not come in surface water</li> <li>▶ Rinse with water into a sewage pipe</li> </ul> </td> </tr> </table>   |               |              |                  |               | Personal Precautions<br>Environmental Precautions<br>Cleaning directions   | <ul style="list-style-type: none"> <li>▶ Wear eye protection</li> <li>▶ Product may not come in surface water</li> <li>▶ Rinse with water into a sewage pipe</li> </ul>   |
| Personal Precautions<br>Environmental Precautions<br>Cleaning directions   | <ul style="list-style-type: none"> <li>▶ Wear eye protection</li> <li>▶ Product may not come in surface water</li> <li>▶ Rinse with water into a sewage pipe</li> </ul>   |  |               |              |                  |               |  |   |

| Chemical Product |  | HDAL                             |  |
|------------------|--|----------------------------------|--|
| 7                | <b>Handling and storage</b>                    | Handling                         | <ul style="list-style-type: none"> <li>▸ Avoid contact with eyes</li> </ul>  |
|                  |  | Storage                          | <ul style="list-style-type: none"> <li>▸ In original packaging</li> <li>▸ Frost-proof</li> </ul>                                 |
| 8                | <b>Exposure Controls / Personal Protection</b> | Skin / Body                      | <ul style="list-style-type: none"> <li>▸ Wear protective clothing</li> </ul>   |
|                  |  | Respiration                      | <ul style="list-style-type: none"> <li>▸ n.a.</li> </ul>   |
|                  |  | Eyes                             | <ul style="list-style-type: none"> <li>▸ Wear eye protection / safety goggles</li> </ul>   |
|                  |  | Hand protection                  | <ul style="list-style-type: none"> <li>▸ Wear gloves</li> </ul>  |
| 9                | <b>Physical/Chemical Properties</b>            | Physical State / Appearance      | <ul style="list-style-type: none"> <li>▸ Liquid</li> </ul>   |
|                  |  | Color                            | <ul style="list-style-type: none"> <li>▸ Clear</li> </ul>  |
|                  |  | Odor                             | <ul style="list-style-type: none"> <li>▸ Characteristic</li> </ul>   |
|                  |  | Solubility                       | <ul style="list-style-type: none"> <li>▸ 100% in water</li> </ul>  |
|                  |  | pH-value                         | <ul style="list-style-type: none"> <li>▸ ca. 13</li> </ul>   |
|                  |  | Specific Gravity / Density (20°) | 1 g/cm <sup>3</sup>  |
|                  |  | Viscosity (40°)                  | n.a. m <sup>2</sup> / s  |
|                  |  | Flashpoint                       | n.a. °C  |
| 10               | <b>Stability and Reactivity</b>                | Stability and Reactivity         | <ul style="list-style-type: none"> <li>▸ Product is stable</li> </ul>  |
|                  |  | Avoiding Conditions              | <ul style="list-style-type: none"> <li>▸ n.a.</li> </ul>   |
|                  |  | Avoiding Materials               | <ul style="list-style-type: none"> <li>▸ n.a.</li> </ul>   |
|                  |  |                                  | <ul style="list-style-type: none"> <li>▸</li> </ul>  |
| 11               | <b>Toxicological information</b>               | Acute Oral Toxicity              | <ul style="list-style-type: none"> <li>▸ Unknown</li> </ul>  |
|                  |  | Dermal Toxicity                  | <ul style="list-style-type: none"> <li>▸ Unknown</li> </ul>  |
|                  |  | Irritant on Eyes                 | <ul style="list-style-type: none"> <li>▸ Irritates Eyes</li> </ul>   |
| 12               | <b>Ecological information</b>                  | Biodegradability                 | The biodegradability is > 90%  |
|                  |  | Ecotoxicity Remarks              | Evolution Test EOCB 301b<br>Product may not come into the surface water.   |
| 13               | <b>Disposal Considerations</b>                 | Waste Information                | <ul style="list-style-type: none"> <li>▸ Removing of residues</li> <li>▸ Polluted Packaging</li> </ul>                           |
|                  |  |                                  | Removal as waste according to local and national prescriptions<br>Removal as waste according to local and national prescriptions |

| Chemical Product          |   | HDAL  |
|---------------------------|---|---|
| 14                        | <b>Transport information</b>                          |   |
|                           | ▸ <b>Road Transport</b>                               |   |
|                           | UN-number   | ▸ N.a.  |
|                           | Proper Shipping Name                                  | ▸ N.a.  |
|                           | ADR Class ? Packing group                             | ▸ N.a.  |
|                           | TEC(R) traffic card                                   | ▸ N.a.  |
|                           | ▸ <b>Air Transport</b>                                |   |
|                           | UN-number   | ▸ N.a.  |
|                           | Proper Shipping Name                                  | ▸ N.a.  |
|                           | IATA Class / Packing group                            | ▸ N.a.  |
| ▸ <b>Sea Transport</b>    |   |   |
| UN-number                 | ▸ N.a.  |   |
| Proper Shipping Name      | ▸ N.a.  |   |
| IMO Class / Packing group | ▸ N.a.  |   |
| 15                        | <b>Regulatory Information</b>                         |   |
|                           | Labeling Marks According to EC-Directives 67/548/EECs |   |
|                           | Recognition Numbers and Hazard Symbols                | ▸ UN 1824   Xi  |
|                           | Content   | ▸ < 5 % sodium hydroxide solution   |
|                           | R-Phrases   | ▸ <b>34</b> Causes burns  |
|                           | S-Phrases   | ▸ <b>2</b> Store out off reach off children<br>▸ <b>24</b> Avoid contact with the skin<br>▸ <b>25</b> Avoid contact with the eyes   |
| 16                        | <b>Other Information</b>                              | ▸ This information is based on our present state of knowledge and is intended to describe our product with respect to possible safety demands. We imply with this however no guarantee of properties or description of qualities. |
|                           | <b>Extra Remarks</b>                                  |   |

| Revision Notes   |   |
|------------------|---|
| Latest Version   | ▸ <b>2</b> / December 18, 2006  |
| Additions        | ▸ No additions - Document Name changed following internal recoding policy |
| Previous Version | ▸ <b>1</b> / November 14 <sup>th</sup> , 2003                             |

**eOx, Inc.**  
**USA:** 4415 Saugus Ave., Ste #102, Los Angeles, CA 91403  
 Tel +1 949 350 2620 Fax: +1 818 788 0126  
**EUROPE:** 1e Lulofsdwarsstraat 117, 2521 AZ, The Hague, Netherlands  
 Tel: +31 703 807 376 Fax :+31 703 841 476  
 www: eoxet.com email: info@eoxet.com

Disclaimer eOx Inc. believes the information contained herein is accurate; however, eOx Inc. makes no guarantees with respect to such accuracy and assumes no liability in connection with the use of the information contained herein by any party. The provision of the information contained herein and the provision of information by or reliance on eOx Inc. Technical and Environmental Services Department is not intended to be and should not be construed as legal advice or as ensuring compliance with any country, federal, state or local laws and regulations. Any party using eOx® products should review all such laws, rules or regulations prior to using eOx® products.