SAFETY DATA SHEET

Product Name: DE-OX-ID

SECTION 1- Product and Company Identification

Product Type: Solvent Cleaner
Product Name: DE-OX-ID
Part Number(s): 19-1902

Emergency Contact: Chemtrec
Phone: (800) 424-9300

SECTION 2- Hazard(s) Identification

***EMERGENCY OVERVIEW***: Extremely flammable liquid and vapor. May be fatal if inhaled. May be fatal if swallowed. Suspect cancer hazard.

GHS Classification
Carc. 2, Eye Irrit. 2B, Flam. Liq. 2, STOT SE 3 NE, STOT SE 3 RTI, Skin Irrit. 2

Symbol(s) of Product

Signal Word
Danger

GHS HAZARD STATEMENTS
Flammable Liquid, category 2 H225: Highly flammable liquid and vapor.
Skin Irritation, category 2 H315: Causes skin irritation.
STOT, single exposure, category 3, RTI H335: May cause respiratory irritation.
STOT, single exposure, category 3, NE H336: May cause drowsiness or dizziness.
Carcinogenicity, category 2 H351: Suspected of causing cancer.
Eye Irritation, category 2B H320: Causes eye irritation.
SECTION 2 - Hazard(s) Identification (Continued)

GHS PRECAUTIONARY STATEMENTS

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 If ON SKIN: Wash with plenty of water
P303+P361+P353 If ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 If INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 If exposed or concerned: Get medical advice/attention.
P312 Call a POISON CENTER/doctor/physician if you feel unwell.
P321 Specific treatment (see first aid section on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use appropriate method to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
SAFETY DATA SHEET  

Product Name: DE-OX-ID

SECTION 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Wt. %</th>
<th>GHS Symbols</th>
<th>GHS Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic Hydrocarbon</td>
<td>64742-49-0</td>
<td>50-75</td>
<td>GHS02-GHS06</td>
<td>H226-315-331-336</td>
</tr>
<tr>
<td>Kerosene (Petroleum)</td>
<td>8008-20-6</td>
<td>25-50</td>
<td>GHS02-GHS07-GHS08</td>
<td>H226-315-320-335-336-351</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>0.1-1.0</td>
<td>GHS02-GHS06-GHS08</td>
<td>H226-302-315-320-330-351</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>0.1-1.0</td>
<td>GHS02-GHS07-GHS08</td>
<td>H225-315-319-332-335-351-373</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>0.1-1.0</td>
<td>GHS02-GHS07-GHS08</td>
<td>H226-315-319-332-335-351-373</td>
</tr>
</tbody>
</table>

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

SECTION 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly. Remove contact lenses if worn.

**FIRST AID - SKIN CONTACT:** Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately and clean shoes before reuse.

**FIRST AID - INHALATION:** Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

**FIRST AID - INGESTION:** Do not induce vomiting. Do not give liquids. Obtain emergency medical attention.

SECTION 5. Fire-Fighting Measures

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Extremely flammable liquid and vapor. Can release vapors that form explosive mixtures at or above the flashpoint. Vapors/dust may form explosive mixture with air. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning. Closed container may explode under extreme heat.

**SPECIAL FIREFIGHTING PROCEDURES:** As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Avoid use of solid water streams. Use water with caution. Material will float and may ignite on surface of water. Water may be ineffective in fighting the fire. Water spray to cool containers or protect personnel. Use with caution. Water spray and foam must be applied carefully to avoid frothing. Water runoff can cause environmental damage. Dike and collect water used to fight fire. For large fires: Water fog, use fog to control vapors; For small fires: dry chemical, carbon dioxide, and foam. Small fire: dry chemicals, carbon dioxide, foam, water fog, or inert gas (nitrogen); Large fire: Foam, water fog, or water spray.

**EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Foam, Water Fog
SECTION 6. Accidental Release Measures

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) Eliminate all ignition sources. Evacuate unnecessary personnel. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. A vapor suppressing foam may be used to reduce exposure to the material. Use tools to contain the spill if possible. Ventilate compartments adjacent to heated cargo. If exposed to heat (fire), contain spill by flooding with water or using a dry chemical extinguishing agent. Material may be recovered by vacuuming or sopping. Do not pump. Absorb spill with inert material such as sand or earth. Place absorbed material in an approved waste container for disposal.

SECTION 7. Handling and Storage

**HANDLING:** Use only in a well ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. Take precautionary measures against static discharge. When transferring, follow proper grounding procedures. Use spark-resistant tools. Do not load into compartments adjacent to heated cargo. Use explosion proof equipment. Always open containers slowly to allow any excess pressure to vent. Follow all MSDS/label precautions even after containers are emptied because they may retain product residues.

**STORAGE:** Keep away from heat, sparks, and flame. Containers can build up pressure if exposed to heat (fire). Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight. Static Discharge, materials can accumulate static charges which can cause an incendiary electrical discharge. Material is a static accumulator which has the potential of forming ignitable vapor-air mixtures in storage tanks.

SECTION 8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Ingredients with Occupational Exposure Limits</th>
<th>ACGIH TLV-TWA</th>
<th>ACGIH TLV STEL</th>
<th>OSHA PEL-TWA</th>
<th>OSHA PEL-CEILING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic Hydrocarbon</td>
<td>5 mg/m3</td>
<td>N.D.</td>
<td>5 mg/m3</td>
<td>N.D.</td>
</tr>
<tr>
<td>Kerosene (Petroleum)</td>
<td>100 mg/m3</td>
<td>150 ppm</td>
<td>150 ppm</td>
<td>N.A.</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>10 ppm</td>
<td>15 ppm</td>
<td>10 ppm</td>
<td>15 ppm</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100ppm</td>
<td>125ppm</td>
<td>100ppm</td>
<td>N.D.</td>
</tr>
<tr>
<td>Xylene</td>
<td>100 ppm</td>
<td>150 ppm</td>
<td>100 ppm</td>
<td>N.D.</td>
</tr>
</tbody>
</table>
SECTION 8. Exposure Controls/Personal Protection (Continued)

Personal Protection

**RENSPORTARY PROTECTION:** Wear a MSHA/NIOSH approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

**SKIN PROTECTION:** Wear impervious gloves to prevent contact with the skin. Wear long sleeves when contact is likely to occur. Wear protective gear as needed - apron, suit, boots. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

**EYE PROTECTION:** Wear safety glasses with side shields (or goggles) and a face shield.

**OTHER PROTECTIVE EQUIPMENT:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**HYGENIC PRACTICES:** Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

SECTION 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Wintergreen</td>
</tr>
<tr>
<td>Density, g/cm³</td>
<td>0.782</td>
</tr>
<tr>
<td>Freeze Point, °F</td>
<td>N.D.</td>
</tr>
<tr>
<td>Solubility In Water</td>
<td>Partial</td>
</tr>
<tr>
<td>Boiling Range, °F</td>
<td>245 - 581</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>N.D.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>N.D.</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>N.D.</td>
</tr>
<tr>
<td>pH</td>
<td>N.D.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N.D.</td>
</tr>
<tr>
<td>Explosive Limits, vol%</td>
<td>1.3 - 10.2</td>
</tr>
<tr>
<td>Flash Point, °F</td>
<td>65</td>
</tr>
<tr>
<td>Auto-Ignition Temp., °F</td>
<td>N.D.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>N.D.</td>
</tr>
</tbody>
</table>

(See "Other information" Section for abbreviation legend)
SAFETY DATA SHEET

Product Name: DE-OX-ID

SECTION 10. Stability and Reactivity

STABILITY: No Information

CONDITIONS TO AVOID: Avoid impact, friction, heat, sparks, flame and source of ignition.

INCOMPATIBILITY: Keep separate from alcalies. Prevent contact with strong oxidizing agents. Keep away from acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic gases/fumes are given off during burning or thermal decomposition. During combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed.

HAZARDOUS POLYMERIZATION: No Information

SECTION 11. Toxicological Information

EFFECTS OF OVEREXPOSURE - INHALATION: May be fatal if inhaled. Vapors can reduce the oxygen content in the air. Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression). May cause dizziness and drowsiness. Causes delayed lung injury.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Contact with skin may cause mild irritation. Harmful if absorbed through skin. Can be absorbed through skin and produce central nervous system effects. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Personnel with pre-existing skin disorders should avoid contact with this product.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation. Contact with the eye may cause moderate irritation. Symptoms may include stinging, tearing, redness and swelling.

EFFECTS OF OVEREXPOSURE - INGESTION: May be fatal if swallowed. Harmful or fatal if liquid is aspirated into lungs. Irritating to mouth, throat, and stomach. Ingestion may cause gastrointestinal tract irritation. Can be readily absorbed by the stomach and intestinal tract. Symptoms include burning sensation of the mouth and esophagus, nausea, vomiting, diarrhea, dizziness, staggering gait, drowsiness, loss of consciousness and delerium as well as additional central nervous system effects. May cause nausea and diarrhea.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Suspect cancer hazard. Possible brain damage from overexposure. The International Agency for Research on Cancer has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. This product contains naphthalene. A National Toxicology Program (NTP) draft report states that lifetime inhalation exposure to naphthalene resulted in increases in tumors of the nose in rats. In a previous NTP study, lifetime inhalation exposure to naphthalene increased lung tumors in female mice. The relevance of the rodent findings to humans is questionable. Overexposure may cause nervous system damage. May cause delayed lung damage. Chronic effects of ingestion and subsequent aspiration into the lungs may cause pneumatocele (lung cavity) formation and chronic lung dysfunction. A component of this product is a potential hazard to the fetus. Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, skin, and/or eyes. Significant exposure to this chemical may adversely affect people with chronic disease of the central nervous system.

Primary Route(s) of Entry: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact
SAFETY DATA SHEET

Product Name: DE-OX-ID

SECTION 11. Toxicological Information (Continued)

Acute Toxicity Values
The acute effects of this product have not been tested. Data on individual components are tabulated below:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Name according to EEC</th>
<th>Oral LD50, mg/kg</th>
<th>Dermal LD50, mg/kg</th>
<th>Vapor LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-49-0</td>
<td>Aliphatic Hydrocarbon</td>
<td>&gt;5,170</td>
<td>&gt;2,000</td>
<td>&gt;7.63</td>
</tr>
<tr>
<td>8008-20-6</td>
<td>Kerosene (Petroleum)</td>
<td>&gt;5,000</td>
<td>&gt;2,000</td>
<td>&gt;5.000</td>
</tr>
<tr>
<td>91-20-3</td>
<td>Naphthalene</td>
<td>490</td>
<td>20000</td>
<td>&gt;0.340</td>
</tr>
<tr>
<td>100-41-4</td>
<td>Ethylbenzene</td>
<td>3500</td>
<td>15433</td>
<td>&gt;20.0</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>Xylene</td>
<td>&gt;3523</td>
<td>&gt;4200</td>
<td>&gt;20.0</td>
</tr>
</tbody>
</table>

SECTION 12. Ecological Information

ECOLOGICAL INFORMATION: No Information

SECTION 13. Disposal Considerations

Always dispose of any waste in accordance with all local, state, and federal regulations.

DISPOSAL METHOD: Dispose of waste in accordance with all local, state and federal regulations.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) Eliminate all ignition sources. Evacuate unnecessary personnel. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. A vapor suppressing foam may be used to reduce vapors. If leak or spill has not ignited, use water spray to disperse the vapors. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Remove from surface by skimming or with suitable absorbents. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Recover by pumping (use an explosion proof or hand pump).

SECTION 14. Transport Information

<table>
<thead>
<tr>
<th>DOT Proper Shipping Name:</th>
<th>Flammable liquids, n.o.s. (naphtha solvents, kerosene)</th>
<th>Packing Group:</th>
<th>II</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Hazard Class:</td>
<td>3</td>
<td>Hazard SubClass:</td>
<td>No Information</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

Product Name: DE-OX-ID

SECTION 15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA ‘Hazard Categories’ promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
</tr>
</tbody>
</table>

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>white mineral oil</td>
<td>8042-47-5</td>
</tr>
<tr>
<td>methyl salicylate</td>
<td>119-36-8</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
</tr>
</tbody>
</table>

U.S. State Regulations:

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>white mineral oil</td>
<td>8042-47-5</td>
</tr>
<tr>
<td>methyl salicylate</td>
<td>119-36-8</td>
</tr>
</tbody>
</table>

PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product are at or greater than 3%.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>white mineral oil</td>
<td>8042-47-5</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

Product Name: DE-OX-ID

SECTION 15. Regulatory Information (Continued)

CALIFORNIA PROPOSITION 65 CARCINOGENS
Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
</tr>
</tbody>
</table>

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS
Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive Toxins exist in this product.

International Regulations: As follows -

CANADIAN WHMIS:
This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

WHMIS Class: No Information

SECTION 16. Other Information

Revision Date: 11/11/2014

HMIS Ratings:

<table>
<thead>
<tr>
<th>Health</th>
<th>1</th>
<th>Flammability</th>
<th>3</th>
<th>Reactivity</th>
<th>0 - No Hazard</th>
<th>Personal Protection:</th>
<th>X</th>
</tr>
</thead>
</table>

Volatile Organic Compounds, gr/ltr: 506

DISCLAIMER: THE VOLATILE ORGANIC COMPOUND (VOC) CONTENT REPORTED HEREIN, IF ANY, IS BASED ON A MATERIAL VOC CALCULATION. NOTE THAT SEVERAL METHODS ARE USED FOR CALCULATING VOC CONTENT AND THAT STANDARDS/ REQUIREMENTS REGARDING VOC CONTENT VARY BY LOCATION/JURISDICTION. ACCORDINGLY, EMCO MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, REGARDING THIS MATERIAL’S COMPLIANCE WITH VOC STANDARDS/ REQUIREMENTS APPLICABLE IN LOCATIONS/JURISDICTIONS WHERE THIS MATERIAL MAY BE SOLD OR USED.

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225 Highly flammable liquid and vapor.
SAFETY DATA SHEET

Product Name: DE-OX-ID

SECTION 16. Other Information (Continued)

H226 Flammable liquid and vapor.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H320 Causes eye irritation
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.

Icons for GHS Pictograms shown in Section 3 describing each Ingredient:

GHS02 GHS07
GHS06 GHS08

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