



1801 Morgan Street
Rockford, IL 61102
Phone: (815) 968-9661
Fax: (815) 968-9731
www.gcelectronics.com

MSDS Number: 109
Revision Date: 5/02/2012
Supersedes Date: 5/04/2009

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: DE-OX-ID

Section 1 - Product and Company Identification

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

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

HMIS RATINGS:

| | | | |
|----------------------|---|-------------------------|---|
| Health: | 1 | Least: | 0 |
| Flammability: | 3 | Slight: | 1 |
| Reactivity: | 0 | Moderate: | 2 |
| Personal Protection: | X | High: | 3 |
| | | Extreme: | 4 |
| | | Gloves, Safety Glasses: | B |

Section 2 - Hazards Identification

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

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Contact with the eye may cause moderate irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Can be absorbed through skin and produce central nervous system effects. May cause skin irritation. 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 - INHALATION: May be fatal if inhaled. Vapors can reduce the oxygen content in the air. Breathing saturated vapors for a few minutes may be fatal. Saturated vapors can be encountered in confined spaces and/or under conditions of poor ventilation. Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression). Causes delayed lung injury.

EFFECTS OF OVEREXPOSURE - INGESTION: May be fatal if swallowed. Harmful or fatal if liquid is aspirated into lungs. Irritating to mouth, throat, and stomach. 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 delirium as well as additional central nervous system effects.



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Section 2- Hazards Identification (Continued)

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: 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. Suspect cancer hazard. A component of this product is a potential hazard to the fetus. Possible brain damage from overexposure. Overexposure may cause nervous system damage. May cause delayed lung damage. 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

Section 3 - Composition / Information On Ingredients

| Chemical Name | CAS Number | Weight % Less Than | ACGIHTLV-TWA | ACGIHTLV-STEL | OSHAPEL-TWA | OSHAPEL-CEILING |
|-----------------------|------------|-----------------------|-----------------------|---------------|---------------------|-----------------|
| Aliphatic Hydrocarbon | 64742-49-0 | 65.0 | 5 mg/m ³ | N.D. | 5 mg/m ³ | N.D. |
| Kerosene | 8008-20-6 | 30.0 | 100 mg/m ³ | 150 ppm | 150 ppm | N.D. |
| Naphthalene | 91-20-3 | 1.0 | 10 ppm | 15 ppm | 10 ppm | 15 ppm |
| Ethylbenzene | 100-41-4 | 1.0 | 100ppm | 125ppm | 100ppm | N.D. |
| Xylene | 1330-20-7 | 1.0 | 100 ppm | 150 ppm | 100 ppm | N.D. |

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.



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Section 5 - Fire Fighting Measures

| | | | |
|---------------------|-----|---------------------------|------|
| Flash Point, °F | 65 | Lower Explosive Limit, %: | 1.3 |
| Flash Point Method: | TCC | Upper Explosive Limit, %: | 10.2 |

UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable liquid and vapor. Can release vapors that form explosive mixtures at or above the flashpoint. Vapors/dust may cause flash fire or explosion. 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.

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 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.

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.



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Section 8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS: Ventilate low-lying areas where dense vapors may collect. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Use explosion-proof ventilation equipment.

RESPIRATORY 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

| | | | |
|-----------------------------|-------------|--------------------------|-------|
| Boiling Range: | N.D. - N.D. | Vapor Density: | N.D. |
| Odor: | Wintergreen | Odor Threshold: | N.D. |
| Appearance: | Liquid | Evaporation Rate: | N.D. |
| Solubility in Water: | Partial | Specific Gravity: | 0.782 |
| Freeze Point: | N.D. | pH: | N.D. |
| Vapor Pressure: | N.D. | Viscosity: | N.D. |
| Physical State: | Liquid | | |

VOLATILE ORGANIC COMPOUNDS, GR/LTR: N.D.

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined



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Section 10 - Stability and Reactivity

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

INCOMPATIBILITY: Prevent contact with strong oxidizing agents. Keep separate from alkalies. 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

STABILITY: No Information

Section 11 - Toxicological Information

Product LD50: N.D.

Product LC50: N.D.

| Chemical Name | LD50 mg/kg | LC50 mg/L |
|-----------------------|------------|-----------|
| Aliphatic Hydrocarbon | >5000.0 | N.D. |
| Kerosene | >5000.0 | 1.72 |
| Naphthalene | 490.0 | 340.0 |
| Ethylbenzene | 3500.0 | N.D. |
| Xylene | 4300.0 | 5000.0 |

Section 12 - Ecological Information

ECOLOGICAL INFORMATION: No Information

Section 13 - Disposal Information

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

Section 14 - Transportation Information

DOT Proper Shipping Name: Flammable liquids, N.O.S. (Naphtha Solvents, Kerosene)

DOT Hazard Class: 3
DOT UN/NA Number: UN1993
Packing Group: III
Label: 3 Flammable liquids
Hazard SubClass: N.D.
Resp. Guide Page: 128



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Section 15 - Regulatory Information

U.S. Federal Regulations: As follows -

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:

| Chemical Name | CAS Number |
|----------------------|-------------------|
| Naphthalene | 91-20-3 |
| Ethylbenzene | 100-41-4 |
| Xylene | 1330-20-7 |

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:

| Chemical Name | CAS Number |
|----------------------|-------------------|
| Naphthalene | 91-20-3 |

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

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

| Chemical Name | CAS Number |
|----------------------|-------------------|
| white mineral oil | 8042-47-5 |

PENNSYLVANIA RIGHT-TO-KNOW

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

| Chemical Name | CAS Number |
|----------------------|-------------------|
| white mineral oil | 8042-47-5 |



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Section 15- Regulatory Information (Continued)

CALIFORNIA PROPOSITION 65:

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

| Chemical Name | CAS Number |
|---------------|------------|
| Naphthalene | 91-20-3 |
| Ethylbenzene | 100-41-4 |

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.

Canadian WHMIS Class:

Section 16- Other Information

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

GC Electronics believes that the information contained herein is accurate and reliable as of the date of this material safety data sheet, but no representation guarantee or warranty, express or implied, is made as to the accuracy, reliability or completeness of the information. Persons receiving information are encouraged to make their own determination as to the information's suitability and completeness for their particular application. NO INFORMATION CONTAINED HEREIN CONSTITUTES A PRODUCT WARRANTY OF ANY KIND, WHETHER EXPRESS OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANT ABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.