



SAFETY DATA SHEET

1. Product and Company Identification

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| Material name | ecoClean, eC16 |
| Version | # 01 |
| Issue date | 07-20-2012 |
| Revision date | 08-01-2014 |
| Supersedes date | - |
| Chemical description | BIOBASED cleaner |
| CAS # | Mixture |
| Product use | General Purpose cleaner/degreaser |
| Manufacturer/Supplier | ecoSolv Technologies LLC 63 Klema Drive East, Reynoldsburg, Ohio 43068 info@ecosolv.com Contact Person: Robert L. Davis 757-436-9266 |
| Telephone number | 757-436-9266 |
| Emergency | Emergency Telephone Number 757-436-9266 |

2. Hazards Identification

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| Physical state | Liquid. |
| Appearance | Amber liquid. |
| Emergency overview | Health injuries are not known or expected under normal use. |
| OSHA regulatory status | This product is not hazardous according to OSHA 29CFR 1910.1200. |
| Potential health effects | |
| Routes of exposure | Eye contact. Inhalation. |
| Eyes | May cause eye irritation on direct contact. |
| Skin | Prolonged skin contact may cause irritation. |
| Inhalation | Inhalation of high concentrations may result in transient irritation and coughing. |
| Ingestion | Ingestion may cause irritation and malaise. |
| Target organs | Eyes. Skin. Respiratory system. |
| Chronic effects | Prolonged contact may cause dryness of the skin. |
| Signs and symptoms | Irritant effects. Irritation of eyes and mucous membranes. |
| Potential environmental effects | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |

3. Composition / Information on Ingredients

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| The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200. | |
| Composition comments | Product Ingredients: nonionic surfactants, corn, soy, tall oil fatty acids, organic alcohol. |

4. First Aid Measures

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| First aid procedures | |
| Eye contact | Flush thoroughly with water. If irritation occurs, get medical assistance. |
| Skin contact | Wash with soap and water. Get medical attention if irritation develops and persists. |
| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
| Ingestion | Not expected to be harmful in amounts likely to be ingested by accident. |
| Notes to physician | Treat symptomatically. |
| General advice | Get medical attention if any discomfort develops. |

5. Fire Fighting Measures

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| Flammable properties | The product is non-combustible. |
| Extinguishing media | |
| Suitable extinguishing media | Dry chemical, foam, carbon dioxide. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Protection of firefighters | |
| Specific hazards arising from the chemical | Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic compounds whose composition have not been characterized. |
| Protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions | Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out. |



6. Accidental Release Measures

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| Personal precautions | Ensure adequate ventilation. For personal protection, see section 8 of the MSDS. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small Spills: Absorb spillage with non-combustible, absorbent material. Wash area with soap and water. |
| Other information | Clean up in accordance with all applicable regulations. |

7. Handling and Storage

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| Handling | Avoid contact with eyes and prolonged skin contact. Observe good industrial hygiene practices. |
| Storage | Store in a cool and well-ventilated place. Store away from incompatible materials. |

8. Exposure Controls / Personal Protection

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| Occupational exposure limits | No exposure limits noted for ingredient(s). |
| Engineering controls | Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. |
| Personal protective equipment | |
| Eye / face protection | If risk of splashing, wear safety goggles or face shield. |
| Skin protection | Wear protective gloves. Rubber, neoprene or PVC gloves are recommended. Suitable gloves can be recommended by the glove supplier. Wear suitable protective clothing. |
| Respiratory protection | No personal respiratory protective equipment normally required. Seek advice from local supervisor. |
| General hygiene considerations | Wash hands after handling. Handle in accordance with good industrial hygiene and safety practice. Follow up on any medical surveillance requirements. |

9. Physical & Chemical Properties

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|---|----------------------|
| Appearance | Amber liquid. |
| Physical state | Liquid. |
| Form | Liquid. |
| Color | Amber. |
| Odor | Faint. |
| Odor threshold | Not available. |
| PH | 10.8 |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Boiling point | Not available. |
| Melting point/Freezing point | 29 °F (-1.7 °C) |
| Solubility (water) | Complete. |
| Specific gravity | Not available. |
| Flash point | > 200 °F (> 93.3 °C) |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not available. |
| Auto-ignition temperature | Not available. |
| VOC | 174 g/l |
| Bulk density | Not applicable. |
| Other data | |
| Explosive properties | Not explosive. |
| Flash point class | Combustible III B |
| Oxidizing properties | Not oxidizing. |

10. Chemical Stability & Reactivity Information

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| Chemical stability | Stable at normal conditions. |
| Conditions to avoid | High temperatures. Exposure to light. Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | Carbon oxides. Nitrogen oxides. |
| Possibility of hazardous reactions | Hazardous reactions do not occur. |



11. Toxicological Information

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| Sensitization | No test data available for the product. |
| Acute effects | May form vapors or oil mists during mechanical action or at elevated temperatures which may be irritating to respiratory tract. |
| Local effects | Contact with eyes may cause irritation. |
| Chronic effects | Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. |
| Carcinogenicity | Not classified by IARC, ACGIH, NTP or OSHA. |
| Epidemiology | No epidemiological data is available for this product. |
| Mutagenicity | There is no data to indicate that any component present at greater than 0.1% may present a risk. |
| Reproductive effects | Contains no ingredient listed as toxic to reproduction |
| Further information | No other specific acute or chronic health impact noted. |

12. Ecological Information

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| Ecotoxicity | Oil spills are generally hazardous to the environment. |
| Environmental effects | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. |
| Aquatic toxicity | Not expected to be harmful to aquatic organisms. |
| Persistence and degradability | The product is readily biodegradable. |
| Bioaccumulation / Accumulation | Not available. |
| Mobility in environmental media | The product is miscible with water. |

13. Disposal Considerations

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| Waste codes | Not regulated. |
| Disposal instructions | Dispose in accordance with all applicable regulations. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Follow all applicable MARPOL requirements for disposal of waste, when transporting materials by vessel. |

14. Transport Information

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| DOT | Not regulated as a hazardous material by DOT. |
| IATA | Not regulated as dangerous goods. |
| IMDG | Not regulated as dangerous goods. |
| TDG | Not regulated as dangerous goods. |

15. Regulatory Information

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| US federal regulations | This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. | |
| TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) | Not regulated. | |
| Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List | Not regulated. | |
| CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4) | None | |
| Superfund Amendments and Reauthorization Act of 1986 (SARA) | | |
| Hazard categories | Immediate Hazard - | No |
| | Delayed Hazard - | No |
| | Fire Hazard - | No |
| | Pressure Hazard - | No |
| | Reactivity Hazard - | No |
| Section 302 extremely hazardous substance (40CFR 355, Appendix A) | No | |
| Section 311/312 (40 CFR 370) | No | |
| Drug Enforcement Administration (DEA) (21 CFR 1308.11-15) | Not controlled | |



Canadian regulations

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.
Non-controlled

WHMIS status

Inventory status

Country(s) or region

Canada

Inventory name

Domestic Substances List (DSL)

On inventory (yes/no)*

Yes

Canada

Non-Domestic Substances List (NDSL)

No

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

Mexico regulations This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

16. Other Information

Other information

ACGIH: American Conference of Industrial Hygienists.

IARC: International Agency for Research on Cancer.

NTP: National Toxicology Program.

OSHA: Occupational Safety and Health Administration.

WHMIS: Workplace Hazardous Materials Information System.

GHS: Global Harmonizing System

HMIS® ratings

Health: 0

Flammability: 0

Physical hazard: 0

NFPA ratings

Health: 0

Flammability: 0

Instability: 0

GHS ratings

Health: 5

Flammability: 5

Physical hazard: 5

Note: Under the new GHS rating system, the number 5 represents "Minimal Hazard" (see below)



Disclaimer: The information in the sheet was written based on the best knowledge and experience currently available