

SAFETY DATA SHEET

1. IDENTIFICATION

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| Product Name: | Eberle Orange Cleaner |
| Supplier: | Eberle Fluid Technology 6311 Ronald Reagan Dr., Ste. 174 Lake St. Louis, MO 63367 |
| Telephone: | (314) 406-1102 |
| Fax: | (636) 240-6155 |
| In case of Emergency: | DOMESTIC NORTH AMERICA 800-424-9300 INTERNATIONAL 703-527-3887 (collect calls accepted) |
| Product Description | EBERLE ORANGE CLEANER is a multipurpose cleaner concentrate. EBERLE ORANGE CLEANER is water extendable, biodegradable, versatile all-purpose cleaner concentrate, composed of natural detergents. EBERLE ORANGE CLEANER is designed for use on hard surfaces, concrete, metals, wood, carpet, and glass. See product data sheet for a detailed description of recommended use. |

2. HAZARDS IDENTIFICATION

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| GHS Classification | Not classifiable as hazardous. |
| GHS Label | |
| Hazard pictogram | Not applicable |
| Signal word | Not applicable |
| Hazard Statement | Not applicable |
| Other Information | This product is not classified as hazardous under OSHA Hazard Communication Standards (29 CFR 1910.1200). |
| Precautionary statements | |
| Prevention | Not applicable |
| Response | Not applicable |
| Storage | Not applicable |
| Disposal | Not applicable |
| Hazards Not Otherwise Classified (HNOC) | Irritating to eyes. May be irritating to skin in individuals whom have sensitive skin or wounds. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: EBERLE ORANGE CLEANER is a water extendable, aqueous, mixture of water and detergents.

| Components/Ingredients | CAS No. | % Range* |
|------------------------------|--------------|----------|
| Water | 7732-18-5 | <80.0 |
| Polyfunctional amino acid | Proprietary* | <5 |
| Alcohols, C9-11, ethoxylated | 68439-46-3 | <5 |
| Sodium lauriminodipropionate | 14960-06-6 | <2 |
| Caprylic acid | 124-07-2 | <1 |
| Steric acid | 57-11-4 | <1 |
| Undecanedioic acid | 1852-04-6 | <1 |
| Sodium silicate | 1344-09-8 | <1 |
| Sodium hydroxide | 1310-73-2 | <0.2 |
| Potassium hydroxide | 1310-58-3 | <0.2 |
| Citrene | 5989-27-5 | <1 |
| Citric acid | 77-92-9 | <1 |
| Colorant / Fragrance | Proprietary* | <0.01 |

*Specific percentages of composition are being withheld as a trade secret.

*Proprietary CAS numbers are being withheld as a trade secret.

4. FIRST AID MEASURES

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| Eye | Irrigate with flowing water immediately and continuously for a minimum of 15 minutes. Get medical assistance immediately if irritation occurs. |
| Skin | Thoroughly rinse contact areas with ample amounts of water. Sensitive individuals may require gloves. If clothing or shoes are contaminated; remove immediately and wash before using again. |
| Ingestion | May cause gastrointestinal irritation. Drink plenty of water to dilute. Seek medical attention immediately. Never give anything by mouth to an unconscious person. If a person vomits when lying on their back, immediately place them in the recovery position to prevent aspiration of vomit. DO NOT induce vomiting. |
| Inhalation | If inhaled, move to fresh air. The exposed person may need to be kept under medical attention. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be required. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Seek medical attention. Most important symptoms/effects, acute and delayed See Section 11 for more detailed information on health effects and symptoms. |

Description of necessary first aid measures / specific treatments

No specific treatment.

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| Notes to Physician | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Treatment should in general be symptomatic and directed to relieving any effects. |
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5. FIRE FIGHTING MEASURES

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| Extinguishing Media | Water spray, alcohol-resistant foam, dry chemical, and carbon dioxide are appropriate extinguishing media. Avoid using water jet to extinguish flames. |
| Hazardous Combustion Products | Combustion products may include the following: Carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) Nitrogen oxides (NO, NO ₂ etc.) |
| Special Fire Fighting Instructions | Keep people away and evacuate the area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self – contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel. |
| Unusual Fire or Explosion Hazards | None known. |
| Flash Point (COC) | This product is not flammable. |
| Auto Ignition Temperature | Not determined |
| Explosion Limits | LEL: No data UEL: No data |

6. ACCIDENTIAL RELEASE MEASURES

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| Personal Precautions, Protective Equipment, and Emergency Procedures | Spilled material may make surfaces slippery. Wear suitable protective gear, such as: chemically protective gloves, eye protection, chemically protective boots, and chemically protective clothing. |
| Environmental Precautions | Dike spilled material to prevent spreading and any releases of this material to the environment. DO NOT allow material to enter waterways or water systems. In the case of a spill or accidental release, notify proper authorities in accordance to regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway. The National Response Center can be contacted at (800)424-8802. |

Methods and Materials for
Containment and Cleaning Up

Dike spilled material and soak up with inert absorbent material, such as: mops, sand, oil-dri, or fiber media. Dispose of material in accordance with all Federal, State and Local regulations. Do not touch or walk through spilt material. Avoid breathing vapor or mist. Provide adequate ventilation.

7. HANDLING AND STORAGE

Handling

Ensure adequate ventilation. Keep out of reach of children or individuals not educated and familiar with the potential hazards of this material. Avoid contact with eyes. Do not ingest. Avoid prolonged or repeated contact with skin. Do not mix or contaminate with other chemicals. Do not eat, drink or smoke while using this product. Avoid high heat, flames, ignition sources, or UV light. Wear appropriate PPE, avoid breathing vapor or mist. Empty containers retain product residue and can be hazardous. Keep in the original container or an alternative made from a compatible material; keep closed when not in use. Do not reuse original container.

Storage

Store in a closed, properly labeled container, in accordance with all regulations. Store in the original container, away from direct sunlight, and incompatible materials. Store at temperatures below 100°F. Keep container tightly sealed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Showers, eyewash stations, and ventilation systems are appropriate.

Environmental Controls

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

Exposure Limit Values

No components listed with TWA or STEL values under OSHA or ACGIH.

Personal Protective Equipment

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear

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| Eye / Face Protection | that cannot be cleaned. Practice good housekeeping. If contact from spray or splashing, safety glasses with side-shields are recommended. |
| Skin Protection | No skin protection is ordinarily required under normal conditions of use. Use of protective gloves is a good practice. Use of chemically resistant gloves is recommended when used for prolonged periods or by individuals whom are dermally sensitive. When the risk of skin exposure is high, chemical resistant aprons and/or impervious chemical suits and boots may be required. PPE for the body should be selected based on the potential for contact with the product and the potential risks involved if contact may occur. |
| Respiratory Protection | The choice of respiratory protections is dependent upon the environment the product is being used and the environment of the product is used in. Safety procedures should be developed for all intended conditions of handling and use of this product. |
| Special Instructions for Protection and Hygiene | Provide readily accessible eye wash stations and safety showers. Wash hands at the end of each work shift and before eating, smoking or using the toilet. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance | Orange Colored Liquid |
| Odor | Mild Citrus Odor |
| Odor Threshold | Not Determined |
| pH | 9.5 – 10.5 |
| Melting Point / Freezing Point | <32°F (0°C) |
| Initial Boiling Point and Boiling Range | 212°F (100°C) |
| Flash Point | >212°F (100°C) |
| Evaporation Rate (Butyl Acetate @ 25°C = 1) | <1 |
| Flammability (solid, gas) | Not Applicable |
| Upper Explosive Limit / Lower Explosive Limit | Not Applicable |
| Vapor Pressure (Water @ 20°C = 17.5 mmHg) | Not Determined |
| Vapor Density | Not Determined |
| Specific Gravity (20°C) | 1.025 – 1.035 |
| Solubility | 100% Soluble in Water |
| Partition Coefficient (n-octanol / water) | Not Determined |
| Auto-ignition Temperature | Not Determined |
| Decomposition Temperature | Not Determined |
| Viscosity (Water @ 20°C = 1 cSt) | 1.5 – 2.5 cSt @ 20°C |

10. STABILITY AND REACTIVITY

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| Chemical Stability | Stable under recommended handling and storage conditions. |
| Conditions to Avoid | Avoid high heat, flames, and ignition sources, UV light, and incompatible materials. |
| Incompatible Materials | Oxidizers, acids, bases, and other cleaners or chemicals. |
| Hazardous decomposition materials | Carbon dioxide, carbon monoxide, oxides of nitrogen, and other unknown incomplete products of combustion. |
| Reactivity | Not expected. |

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

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| Inhalation | Overexposure may cause headaches. |
| Skin Contact | Repeated and prolonged contact may cause defatting and irritation of the skin. |
| Eye Contact | May cause irritation. |
| Ingestion | May cause gastrointestinal irritation. |

Potential Acute Health Effects

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| Eye Contact | No significant effects or critical hazards. |
| Inhalation | Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. |
| Skin Contact | Defatting to the skin; may cause skin dryness and irritation. |
| Ingestion | Not expected; may cause gastrointestinal irritation. |

Symptoms related to; physical, chemical and toxicological characteristics

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|--------------|---|
| Eye Contact | Irritation, dryness, stinging, tearing |
| Inhalation | Not determined |
| Skin Contact | Skin irritation, dryness, redness, cracking |
| Ingestion | Not determined |

Delayed / Chronic Health Effects

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|--------------|---|
| Eye Contact | Stinging, itching, and irritation. |
| Skin Contact | Prolonged or repeated contact can cause skin defatting, leading to; dermatitis, cracking, and irritation. |
| Ingestion | While not likely, ingestion may cause nausea and diarrhea. |

Potential Chronic Health Effects

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| Carcinogenicity | Not known |
| Mutagenicity | Not known |
| Teratogenicity | Not known |
| Developmental | Not known |

Fertility

Not known

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| Skin Corrosion / Irritation | Mixture not classified as a Skin Corrosion Hazard or Skin Irritation Hazard. |
| Eye Damage / Irritation | Mixture not classified as an Eye Damage Hazard or Eye irritation Hazard. |
| Germ Cell Mutagenicity | Mixture not classified. |
| Carcinogenicity | Mixture not classified. |
| Reproductive Toxicity | Mixture not classified. |
| Specific Target Organ Toxicity – Single Exposure | Mixture not classified. |
| Specific Target Organ Toxicity – Repeated Exposure | Mixture not classified. |
| Aspiration Toxicity | Mixture not classified. |

The hazard classifications of this substance / mixture were made congruent to the Occupational Safety and Health Standards, established in OSHA Regulation Standards 29 CFR 1910.1200.

12. ECOLOGICAL INFORMATION

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| Aquatic Toxicity | Do not release into waterways, water systems, or land. Not determined to be classified under 1910.1200, with an aquatic toxicity profile classification. |
| Terrestrial Toxicity | Not determined. |
| Persistence and Degradability | Biodegradable per information of mixtures components. |
| Bioaccumulative Potential | Not determined. |
| Mobility in Soil | Not determined. |
| Other Adverse Ecological Effects | Complete ecological effects of this mixture are not known. Do not release into waterways, water systems, or environment. |

13. DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with all current applicable federal, state, and local laws and regulations, and material characteristics at time of disposal. Empty containers may contain residue and can be dangerous.

Do not attempt to refill or clean containers without proper instructions. Empty containers should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste, nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, toxicity, or reactivity and is not formulated with contaminants as

determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

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| UN Number | Not Applicable |
| UN Proper Shipping Name | Cleaning Compound, Liquid, NOI |
| Transport Hazard Class | Not Applicable |
| Packing Group | Not Applicable |
| Environmental Hazards | Marine Pollutant – NO |
| Transportation in Bulk (Annex II of MARPOL 73/78 and IBC Code) | Contact Eberle Fluid Technology for bulk shipping. |
| Special Precautions | Spilled material may be a slip hazard. |
| U.S. DOT / Canadian TDG | Not Regulated for shipping |
| IMO / IDMG | Not Classified as Hazardous |
| ICAO / IATA | Not Classified as Hazardous |
| ADR / RID | Not Classified as Hazardous |
| NMFC Number | 48580-3 |
| Freight Class | 55 |

15. REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: The hazard classifications of this substance / mixture were made congruent to the Occupational Safety and Health Standards, established in OSHA Regulation Standards 29 CFR 1910.1200.

Complies with the following national/regional chemical inventory requirements: TSCA, DSL, AICS, ENCS, IECSC, KECI, PICCS

EPCRA SECTION 302: This material contains no extremely hazardous substances.

EPA SARA Title III Section 311/312 (40 CFR 370) Hazard Classification: Not Applicable

EPA SARA Title III Section 313 (40 CFR 372): Not Applicable

CLEAN AIR ACT (CAA): Not Applicable

CLEAN WATER ACT (CWA): Not Applicable

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other harm.

16. ADDITIONAL INFORMATION

Revision Date: May 8th, 2015
Revision #: DML-2

Prepared or Revised By: Eberle Fluid Technology

This SDS prepared for this substance / mixture was made congruent to the Occupational Safety and Health Standards, established in OSHA Regulation Standards 29 CFR 1910.1200.

HMIS: Health = 0; Flammability = 0; Physical Hazard = 0; Personal Protection = B

NFPA: Health = 0; Flammability = 0; Chemical Reactivity = 0; Special Hazards = None

Disclaimer: The information presented herein has been compiled from sources considered to be dependable and is accurate as of the date issued. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use are beyond our control, Eberle Fluid Technology, makes no warranty regarding the accuracy of such data or its suitability for any use or for any consequence of its use. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Safe handling and use remains the responsibility of the purchaser and the purchaser has the sole responsibility to determine the suitability of the materials for any use and the manner of user contemplated. Eberle Fluid Technology, assumes no responsibility for injury to the recipient or to third persons or for any damage to any property and the recipient assumes all such risks.