

**Product Name: CLEANSAFE 100**

SDS No.: 3004

Issue Date: 5/28/2015

Version No.: 6

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CLEANSAFE 100

Description: Concentrate, General Purpose, Heavy-Duty Cleaner/Degreaser
Product Code: CS100
Suggested Use: Cleaner/Degreaser, Locomotives, Engines, shop floors, etc.
Restrictions on Use: Do not use on hard floors in hallways, kitchens or bathrooms, except for spot-cleaning.

Supplier: Additive Technologies, LLC
1515 West 2200 South, Suite C
Salt Lake City, Utah 84119 USA

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Fax: 1-801-340-0217
Email: sds@additivetech.com SDS on-line: www.additivetech.com
Emergency Phone: CHEMTREC 1-800-424-9300
International 1-703-527-3887

2. HAZARDS IDENTIFICATION**Classification**

GHS Classification: Skin Irritation (Category 2)
Eye Irritation (Category 2)

GHS Label Elements

Pictogram:



Signal Word: Warning

Hazard Statements: H315: Causes skin irritation
H320: Causes eye irritation

Precautionary Statements: P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/ eye protection/ face protection.
P302+P352: IF ON SKIN: was with plenty of soap and water
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical attention.

HMIS Classification: Health Hazard: 1
Flammability: 0
Physical Hazards: 0

NFPA Rating: Health Hazard: 1
Fire: 0
Reactivity Hazard: 0

Potential Health Effects

| | |
|-------------|---|
| Inhalation: | Vapors may be harmful if inhaled. Unlikely to cause serious injury. |
| Skin: | May cause skin irritation. |
| Eyes: | Causes eye irritation. |
| Ingestion: | May cause irritation to mouth, throat, and stomach. Do not ingest. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Component</u> | <u>CAS Number</u> | <u>Concentration</u> |
|---|-------------------|----------------------|
| Potassium Hydroxide | 1310-58-3 | <1% |
| Proprietary, Non-Hazardous Surfactant Blend | N/A | N/A |
| Water | 7732-18-5 | Balance |
| Synonyms: | N/A | |

4. FIRST AID MEASURES

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| If Inhaled: | If inhaled, move person into fresh air. If not breathing, give artificial respiration and seek emergency medical attention. Consult a physician. |
| Skin Contact: | If irritated, take off contaminated clothing and shoes immediately. Flush skin with plenty of water for at least fifteen minutes. If irritation persists, consult a physician. |
| Eye Contact: | If irritated, flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if able to do so. If irritation persists, consult a physician. Continue rinsing eyes during transport to hospital. |
| If Ingested: | Do NOT induce vomiting unless instructed to do so by a physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |

5. FIREFIGHTING MEASURES

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| Flammability Overview: | Considered a non-flammable water solution. |
| Flash Point: | N/A |
| Extinguishing Media: | Use water-spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Tailor extinguishing media to surrounding fire. |
| Special Protective Equipment for Firefighters: | Wear a self-contained breathing apparatus (SCBA) for firefighting if necessary. |
| Hazardous Combustion Products: | Under fire conditions: Mostly Carbon Oxides |

6. ACCIDENTAL RELEASE MEASURES

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| Personal Precautions: | Use personal protective equipment. Always ensure adequate ventilation. |
| Environmental Precautions: | Prevent further leakage or spillage if safe to do so. Prevent from entering drains and waterways. Discharge into the environment must be avoided. |
| Containment and Clean Up: | Soak up with inert absorbent material and dispose of. Keep in suitable, closed containers for disposal. If assistance is needed call CHEMTREC or emergency services. |

7. HANDLING AND STORAGE

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| Safe Handling: | Use personal protective equipment. Always ensure adequate ventilation. |
| Safe Storage: | Keep containers tightly closed in a dry well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

| Component | CAS Number | Exposure Limit | Basis |
|---------------------|------------|---------------------|-----------------|
| Potassium Hydroxide | 1310-58-3 | 2 mg/m ³ | ACGIH TLV (TWA) |
| | | 2 mg/m ³ | OSHA PEL (TWA) |
| | | 2 mg/m ³ | NIOSH REL (TWA) |

Personal Protective Equipment

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|-------------------------|--|
| Eye Protection: | Tightly fitting safety goggles or safety glasses should be sufficient. Have eye-wash stations available where eye contact can occur. |
| Hand Protection: | Handle with chemical-resistant gloves. Gloves must be inspected prior to use. Wash and dry hands after use. |
| Skin Protection: | Wear a chemical apron or other protective clothing to prevent skin contact. Safety showers should be located in the work area where skin contact can occur. |
| Respiratory Protection: | Where risk assessment shows air-purifying respirators are appropriate, use a NIOSH-approved full face respirator with appropriate cartridges. |
| General Controls: | Always ensure adequate ventilation and that working areas contain safety showers and eye wash stations. Handle material in accordance with good industrial hygiene and safety practices. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Physical State: | Liquid |
| Color: | Clear very light yellow liquid (no dye) or Blue (with dye) |
| Odor: | Slight, Soap-like |
| Odor Threshold: | N/A |
| pH: | 11.5-12.5 |
| Melting/Freezing Point: | -14°C (6.8°F) |
| Boiling Point: | 102°C (216°F) |
| Flash Point: | None |
| Evaporation Rate: | N/A |
| Flammability (solid, gas): | N/A |
| Flammability/Explosion Limits: | N/A |
| Vapor Pressure @ 20°C: | 25 mmHg |
| Vapor Density: | <1 (air=1) |
| Specific Gravity: | 1.010-1.055 |
| Density: | 8.42-8.80 lbs/gal |
| Solubility in Water: | Complete |
| Partition Coefficient: | N/A |
| Autoignition Temperature: | N/A |
| Decomposition Temperature: | N/A |
| Viscosity: | <100 cPs |

10. STABILITY AND REACTIVITY

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| Chemical Stability: | Stable under recommended storage conditions. |
| Conditions and Materials to Avoid: | Strong Oxidizing Agents. Strong Acids. |
| Hazardous Decomposition Products: | Hazardous decomposition products under fire conditions: Mostly Carbon Oxides. |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| Component | CAS Number | Test | Toxicity |
|---------------|------------|----------------------|-------------------|
| CLEANSAFE 100 | Mixture | Oral LD50 (Rat) | >5000 mg/kg |
| | | Dermal LD50 (Rabbit) | >5000 mg/kg |
| | | Inhalation LC50 | No data available |

*Based on component data

Potential Health Effects

| | |
|--|---|
| Inhalation: | Vapors may be harmful if inhaled. Unlikely to cause serious injury. |
| Skin: | May cause skin irritation. |
| Eyes: | Causes eye irritation. |
| Ingestion: | May cause irritation to mouth, throat, and stomach. Do not ingest. |
| Signs and Symptoms of Exposure: | Irritation. |
| Chronic Effects of Long-term Exposure: | No data available |
| Carcinogenicity: | No known components of this product at levels greater than 0.1% are identified as carcinogenic by IARC, ACGIH, or OSHA. |

12. ECOLOGICAL INFORMATION

Acute Ecotoxicity

| Component | CAS Number | Organism | Ecotoxicity |
|---------------|------------|----------------------|------------------------|
| CLEANSAFE 100 | Mixture | Aquatic Invertebrate | 48 hr LC50 = >500 mg/L |
| | | Microorganisms | NOEC = >1000 mg/L |
| | | Fish | 96 hr LC50 = >500 mg/L |

*Based on component data

Ecological Effects

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|--------------------------------|--------------------------------|
| Persistence and Degradability: | Biodegradable |
| Bioaccumulation Potential: | Not expected to bio-accumulate |
| Mobility in Soil: | No data available |
| Other Adverse Effects: | No data available |

13. DISPOSAL CONSIDERATIONS

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|-------------------------|---|
| Disposal: | Material should be disposed in accordance with all local, state, and federal regulations. Regulations vary by region. |
| Contaminated Packaging: | Dispose of same as unused product. |

14. TRANSPORT INFORMATION

DOT Information

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|---------------------------|------------------------------|
| Proper Shipping Name: | N/A |
| UN Number: | N/A |
| Hazard Class: | N/A |
| Packing Group: | N/A |
| Reportable Quantity (RQ): | N/A |
| Marine Pollutant: | N/A |
| Note: | Not regulated for transport. |

15. REGULATORY INFORMATION

US Federal

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|-----------------------|---------------------|
| SARA 302 Components: | None Listed |
| SARA 311/312 Hazards: | Acute Health Hazard |
| SARA 313 Components: | None Listed |

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| TSCA Inventory: | All chemicals listed |
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European Union

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|---------------|----------------------|
| EC Inventory: | All chemicals listed |
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State Regulations

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|-------------|---------------------|
| CA Prop 65: | No chemicals listed |
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16. OTHER INFORMATION

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| SDS Version: | 1.0 |
| Revisions: | New to GHS |
| Supersedes: | MSDS Ver. 2.0, Previous MSDS Version date: 02/13/2008 |

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For product information or to re-order, call Additive Technologies, LLC 1-800-513-4959