

Additive Technologies, LLC

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MATERIAL SAFETY DATA SHEET

LOCOCLEAN 300 Heavy-duty cleaner and degreaser CONCENTRATE

MSDS No: 4012
Ver. No: 3
Ver. Date: 6/15/2009

CUSTOMER SERVICE:
303-300-6525

24-HOUR EMERGENCY NUMBERS:
CHEMTREC: 1-800-424-9300
INTERNATIONAL: 1-703-527-3887

National Fire Protection Association

| | |
|---|--------------|
| 2 | Health |
| 0 | Flammability |
| 0 | Reactivity |
| | Special |

Suggested Protective Equipment:



SECTION 1

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: LOCOCLEAN 300 Heavy-duty cleaner and degreaser, CONCENTRATE
Product Description: General Purpose, Heavy-Duty Cleaner/Degreaser Concentrate
Chemical Name: Mixture
Chemical Family: Alkaline aqueous cleaning solution of inorganic and organic ingredients
Chemical Formula: Mixture
General Use: Heavy-duty industrial cleaning.
Manufacturer: Additive Technologies, LLC
1515 West 2200 South, Suite C
Salt Lake City, Utah 84119 USA
Tel: 303-300-6525 Fax: 801-972-0707
Hours of operation: Mon-Fri 8:00am-5:00pm MST
24-hour Emergency Number: CHEMTREC: 1-800-424-9300
24-hour International Emergency Number: 1-703-527-3887

SECTION 2

COMPOSITION / INFORMATION ON INGREDIENTS

| <u>INGREDIENT</u> | <u>CAS No</u> | <u>% WT</u> | <u>OSHA PEL/TWA/STEL</u> | <u>ACGIH CEILING</u> |
|--|----------------|-------------|--------------------------|----------------------|
| Monoethanolamine (Ethanol, 2-amino-) | 141-43-5 | <6% | 3ppm | 6ppm |
| Potassium Hydroxide | 1310-58-3 | <2% | 2mg/m3 | 2mg/m3 |
| Proprietary Non-Hazardous Surfactant Blend and Water | Not applicable | Balance | Not applicable | Not applicable |

SECTION 3

HAZARDOUS IDENTIFICATION

Health: 2
Flammability: 0
Reactivity: 0
Special: 0
0 = minimal 1= slight 2=moderate 3= serious 4= severe

HMIS

H # 2
F # 0
R # 0

PPE†

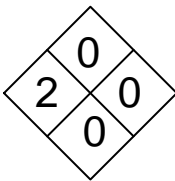
†Sec. 8

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| Route(s) of Entry | |
| Inhalation: | Inhalation may aggravate respiratory conditions. May cause irritation following inhalation of mists. Not normally a hazard due to the low VOC content in the product. |
| Skin: | Prolonged or repeated exposure to alkaline products may cause burning, redness or sensitivity. |
| Ingestion: | Can cause severe irritation or burns to digestive tract. Do not swallow. |
| Eyes: | Direct eye contact with alkaline products can cause pain and burns. Avoid contact. |
| Target Organs: | Eyes, skin, lungs |
| Medical Conditions Generally Aggravated by Long-Term Exposure: | |
| Exposure: | None expected. |
| Chronic Effects: | None known |
| Carcinogenicity | |
| NTP: | None known |
| IARC Monographs: | None known |
| OSHA Regulations: | None known |
| ACGIH | None known |

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| SECTION 4 | FIRST AID MEASURES |
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| Emergency and First Aid Procedures: | Eye contact: | Flush eyes with large amounts of water for 15 minutes. If irritation persists, get medical attention. |
| | Skin contact: | Wash affected area thoroughly with soap and water. Remove contaminated clothing, rings, etc. |
| | Ingestion: | Do not induce vomiting. Give plenty of water or milk and call physician immediately. Do not give anything by mouth to an unconscious or convulsing person. |
| | Inhalation: | This is a very low VOC product. Normally, vapors are not a problem; however, inhalation of mist can cause irritation. If breathing has stopped start artificial respiration. |
| Note to Physicians: | Treat symptomatically | |
| Special Precautions/Procedures: | None known | |

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| SECTION 5 | FIRE-FIGHTING MEASURES |
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| Unusual Fire Fighting procedures: | None required | NFPA  |
| Flash Point: | None detected | |
| Flash Point Method: | Pensky Martens | |
| Burning Rate: | Does not burn | |
| Autoignition Temperature: | Not available | |
| Flammable limits in air (% by volume): | Not applicable | |
| LEL: | Not applicable | |
| UEL: | Not applicable | |
| Flammability Classification: | Not flammable | |
| Extinguishing Media: | Compatible with all media | |
| Unusual Fire or Explosion Hazards: | None known | |
| Fire-Fighting Instructions; | Do not release runoff from fire control methods to sewers or waterways. | |
| Fire-Fighting Equipment: | Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode. | |
| Unusual Fire Fighting procedures: | Not required | |

SECTION 6**ACCIDENTAL RELEASE MEASURES**

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| Spill/Leak Procedures: | Recover usable material by convenient method; residual may be removed by wipe or wet mop |
| Small Spills: | Small spills should be absorbed with a suitable inert material (sand, earth, clay, etc.). Remove the absorbed material and place in an appropriate chemical waste container for disposal. |
| Large Spills: | For large spills, dike and pump into suitable containers. Clean up residual water. |
| Containment: | For large spills, dike far ahead of liquid spill for later disposal. |
| Regulatory Requirements: | Follow applicable Federal, State and Local regulations. |

SECTION 7**HANDLING AND STORAGE**

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| Handling Precautions | Wear impermeable gloves and other protective clothing to avoid prolonged or repeated skin contact. When handling, wear eye protection. |
| Storage Requirements: | Keep containers tightly closed when not in use. Store only in containers that are resistant to alkaline solutions with a pH of 12-14. |

SECTION 8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

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| Engineering Controls | |
| Ventilation: | Provide general or local exhaust ventilation systems. |
| Administrative Controls | |
| Respiratory Protection: | Not necessary for protection from vapors, if inhalation of mists is likely, use a respirator or appropriate mask for nose and mouth. |
| Protective Clothing/Equipment: | HANDS: Alkaline resistant gloves. SKIN: Protective clothing, long sleeves and long pants recommended EYES: Chemical splash goggles or face-shield RESPIRATORY: Not normally required, but recommended that protection be available if needed for mist. VENTILATION: Normal ventilation OTHER: And eye wash and source of water to flush the skin should be available |
| Work and Hygienic Practices: | Wash or rinse hands before touching eyes or contact lenses, and before eating. |
| Thermal Hazards: | None applicable |
| Safety Stations: | Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area. |
| Contaminated Equipment: | Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment. |
| Comments: | Avoid contact with skin, eyes and clothing. Do not drink. Clean up spills immediately. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. |

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

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| Appearance and odor: | Clear, yellow liquid with a mild soap odor |
| Boiling Point (760 mm Hg): | 216°F±2° |
| Freezing/Melting Point: | 14°F |
| Specific Gravity (water =1): | 1.085-1.095 |
| Vapor Density (air =1): | <1 |
| Percent Volatile by Volume: | 2% |
| Evaporation Rate (butyl acetate =1): | <1 |
| Solubility in Water (% by wt): | 100% |
| Vapor Pressure (at 20°C): | 25mm Hg |
| pH: | 12.0-12.5 |

| SECTION 10 | | STABILITY AND REACTIVITY |
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| Stability: | Stable | |
| Polymerization: | Will not occur. | |
| Chemical Incompatibilities: | Strong oxidizing agents, strong acids. | |
| Conditions to Avoid: | Strong oxidizing agents, strong acids. | |
| Hazardous decomposition products: | If involved in a fire the following decomposition products may be generated: Carbon dioxide, carbon monoxide, nitrogen oxides. | |
| SECTION 11 | | EXPOSURE TOXICOLOGICAL INFORMATION |
| Eye Effects: | May irritate eyes, face protection recommended. Moderate redness, tearing or temporary blurred vision | |
| Skin Effects: | May irritate or burn skin with very prolonged exposure. The severity increases with length of contact time, long sleeve shirts are recommended. | |
| Acute Inhalation Effects: | Airborne concentrations of mist or spray may cause irritation to the respiratory tract. | |
| Acute Oral Effects: | Swallowing can cause burning and tissue damage of mucous membranes of the mouth, throat, esophagus and stomach. | |
| Chronic Effects: | None known | |
| Carcinogenicity: | Neither product nor its ingredients are listed by IARC, NTD or OSHA | |
| Mutagenicity: | Not mutagenic | |
| Teratogenicity: | Not Teratogenic | |
| SECTION 12 | | ECOLOGICAL INFORMATION |
| Ecotoxicity: | Not determined | |
| Environmental Fate: | Decomposes to carbon, oxygen, nitrogen, phosphate salts and water. | |
| Environmental Degradation: | Biodegradable | |
| Soil Absorption/Mobility: | Not determined | |
| SECTION 13 | | DISPOSAL CONSIDERATIONS |
| Waste disposal method: | Sanitary landfill or incinerate in approved facilities in accordance with local, state and federal regulations. | |
| Disposal Regulatory Requirements: | Shipments of waste material may be classified as hazardous and subject to manifesting requirements through applicable regulatory agency. | |
| Container Cleaning and Disposal: | Containers should be cleaned of residual product before disposal, and disposed of in accordance with all applicable laws and regulations. | |
| SECTION 14 | | TRANSPORT INFORMATION |
| DOT Shipping Name: | Not regulated | |
| Shipping Symbols: | Not applicable | |
| Hazard Class: | Not applicable | |
| DOT Identification No.: | Not regulated | |
| Packing Group: | Not applicable | |
| Label: | Not applicable | |
| Special Provisions (172.102): | Not applicable | |
| SECTION 15 | | REGULATORY INFORMATION |
| EPA Regulations | | |
| RCRA Hazardous Waste Number and RCRA Hazardous Waste Classification: | | Not applicable |
| CERCLA Hazardous Substance and CERCLA Reportable Quantity: | | Not applicable |
| SARA Toxic Chemical and SARA EHS: | | Reportable under SARA Title III (40 CFR, Part 370) |
| OSHA Regulations: | | Must comply with OSHA standard 29 CFR 1910.1200 (employee right to know) |

SECTION 16**OTHER INFORMATION**

Prepared By: Additive Technologies

Additional Hazard Rating Systems: None

Disclaimer: THE INFORMATION GIVEN HEREIN IS GIVEN IN GOOD FAITH AND FROM SOURCES WE BELIEVE RELIABLE. BUT NO WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS IS MADE.

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