

Additive Technologies, LLC

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MATERIAL SAFETY DATA SHEET

LOCOCLEAN 100 Heavy-duty cleaner and degreaser CONCENTRATE

MSDS No: 4011
Ver. No: 4
Ver. Date: 1/1/2010

CUSTOMER SERVICE:
303-300-6525

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

National Fire Protection Association

1	Health
0	Flammability
0	Reactivity
	Special

Suggested Protective Equipment:



SECTION 1

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: LOCOCLEAN 100 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	<2%	3ppm	6ppm
Proprietary Non-Hazardous Surfactant Blend and Water	Not applicable	Balance	Not applicable	Not applicable

SECTION 3

HAZARDOUS IDENTIFICATION

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

HMIS

H # 1
F # 0
R # 0

PPE†

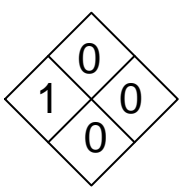
†Sec. 8

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

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	

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**

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**

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**

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**

Appearance and odor:	Clear, yellow liquid with a mild soap odor
Boiling Point (760 mm Hg):	216°F±2°
Freezing/Melting Point:	28°F
Specific Gravity (water =1):	1.025-.1035
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
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:	Unused product is not classified as a hazardous waste by RCRA criteria	
CERCLA Hazardous Substance and CERCLA Reportable Quantity:	Does not contain any ingredients listed as a CERCLA hazardous substance.	
SARA Toxic Chemical and SARA EHS:	Not subject to reporting under SARA Title III Section 313.	

OSHA Regulations:

Not a hazardous chemical as defined by the OSHA Hazard Communication Standard.

State Regulations:

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1985 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

NONE KNOWN

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.

The conditions or methods of handling, storage, use and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not apply.

CONSULT ADDITIVE TECHNOLOGIES FOR FURTHER INFORMATION.