

Additive Technologies, LLC

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MATERIAL SAFETY DATA SHEET

CleanSafe® C3 -100 Concentrated Heavy-Duty Industrial Cleaner and Degreaser

MSDS No: 3022
Ver. No: 4
Ver. Date: 4/17/2008

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

Protective Equipment:



SECTION 1

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product/Chemical Name: CleanSafe C3-100
Product Description: General Purpose, Heavy-Duty Cleaner/Degreaser
Chemical Name: Mixture
Chemical Family: Moderately alkaline aqueous solution.
Chemical Formula: Mixture
CAS Registry: Mixture
Other Designations: None
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

CleanSafe contains no hazardous ingredients. The following is given for information only.

<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	2-3%	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

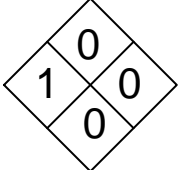
Inhalation: May cause minor irritation of respiratory system.
Skin: May cause minor skin irritation with some individuals susceptible to sensitization.
Ingestion: May cause some discomfort and diarrhea.

Eyes:	May cause minor irritation of eyes in some individuals.
Target Organs:	None known
Effects of overexposure:	Acute: Minor irritant to eyes. Chronic: None known.
Signs and Symptoms of Exposure:	Redness and/or stinging sensation in eyes or on skin. Minor eye or skin irritation may occur with some people.
Medical Conditions Generally Aggravated by Long-Term 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:	If product contacts eyes, flush immediately with water for several minutes.
	Skin contact:	If product contacts skin, rinse with water for several minutes within a reasonable period of time after contact occurs.
	Ingestion:	If product is ingested, drink several glasses of water. Do not induce vomiting. Consult a physician.
	Inhalation:	If product is inhaled, remove to fresh air. Obtain medical attention.
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. If necessary, unrecoverable material may be washed to drain with large quantities of water.
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:	Large spills should be diked and pumped.
Containment:	For large spills, dike far ahead of liquid spill for later disposal.
Regulatory Requirements:	Follow applicable OSHA regulations (29 CFR 1910.120).

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:	May be stored in steel, HDPE or stainless steel tanks. Store at temperatures above 30°F and below 150°F.

SECTION 8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls Ventilation:	Provide general or local exhaust ventilation systems.
Administrative Controls Respiratory Protection:	Respiratory protection generally is not required. However, if the product is used at elevated temperatures sufficient to generate vapors/mist, use a NIOSH approved organic vapor and gas respirator with mist filter.
Protective Clothing/Equipment:	Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles.
Work and Hygienic Practices:	No special requirements. Wash or rinse hands before touching eyes or contact lenses, and before eating.
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:	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:	Light purple colored liquid with a slightly bitter or mild detergent odor.
Boiling Point (760 mm Hg):	220°F±2°.
Freezing/Melting Point:	22°F
Specific Gravity (water =1):	1.020-1.028
Vapor Density (air =1):	<1
Percent Volatile by Volume:	NIL
Evaporation Rate (butyl acetate =1):	<1
Solubility in Water (% by wt):	100%
Vapor Pressure (at 20°C):	20mm Hg.
pH:	10.0-10.5

SECTION 10		STABILITY AND REACTIVITY
Stability: Polymerization: Chemical Incompatibilities: Conditions to Avoid: Hazardous decomposition products:	Stable Hazardous polymerization cannot occur. None Avoid contact with strong acids and strong oxidizers This product does not burn, but if involved in a fire small quantities of carbon and nitrogen oxides can be generated in extreme conditions.	
SECTION 11		EXPOSURE TOXICOLOGICAL INFORMATION
Eye Effects: Skin Effects: Acute Inhalation Effects: Acute Oral Effects: Chronic Effects: Carcinogenicity: Mutagenicity: Teratogenicity:	Irritating to eyes Can be irritating to skin upon prolonged contact Significant vapors are only generated at elevated temperatures; may irritate nose and respiratory system. Can cause irritation to mouth, throat and stomach None known Neither product nor its ingredients are listed by IARC, NTD or OSHA Not mutagenic Not Teratogenic	
SECTION 12		ECOLOGICAL INFORMATION
Ecotoxicity: Environmental Fate: Environmental Degradation: Soil Absorption/Mobility:	Not determined Decomposes to carbon, oxygen, nitrogen and water. Biodegradable Not determined	
SECTION 13		DISPOSAL CONSIDERATIONS
Waste disposal method: Disposal Regulatory Requirements: Container Cleaning and Disposal:	Sanitary landfill or incinerate in approved facilities in accordance with local, state and federal regulations. This product, if unused, does not meet the RCRA criteria for being identified as a hazardous waste by characteristics. 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: Shipping Symbols: Hazard Class: DOT Identification No.: Packing Group: Label: Special Provisions (172.102): Packaging Authorizations a) Exceptions: b) Non-bulk Packaging: c) Bulk Packaging: Quantity Limitations a) Passenger, Aircraft, or Railcar: b) Cargo Aircraft Only: Vessel Stowage Requirements a) Vessel Stowage: b) Other:	Not regulated Not applicable Not applicable Not regulated Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable 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, LLC, technical department

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, LLC FOR FURTHER INFORMATION.