

# Additive Technologies, LLC

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# MATERIAL SAFETY DATA SHEET

## CleanSafe® 40% Heavy-Duty Industrial Cleaner and Degreaser

MSDS No: 3002  
Ver. No: 5  
Ver. Date: 2/13/2008

**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 40% Concentration (40% cleaner/ 60% water)  
**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</u>
Proprietary Non-Hazardous Ingredients And Water	Not applicable	100%	Not applicable

## SECTION 3

### HAZARDOUS IDENTIFICATION

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

<b>HMIS</b>
<b>H # 1</b>
<b>F # 0</b>
<b>R # 0</b>
<b>PPE†</b>
†Sec. 8

### Route(s) of Entry

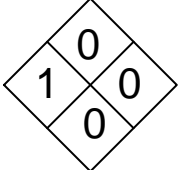
**Inhalation:** May cause minor irritation of respiratory system.  
**Skin:** May cause minor skin irritation with some individuals susceptible to sensitization.  
**Ingestion:** May cause some discomfort and diarrhea.

<b>Eyes:</b>	May cause minor irritation of eyes in some individuals.
<b>Target Organs:</b>	None known
<b>Effects of overexposure:</b>	Acute: Minor irritant to eyes. Chronic: None known.
<b>Signs and Symptoms of Exposure:</b>	Redness and/or stinging sensation in eyes or on skin. Minor eye or skin irritation may occur with some people.
<b>Medical Conditions Generally Aggravated by Long-Term Exposure:</b>	None expected.
<b>Chronic Effects:</b>	None known
<b>Carcinogenicity</b>	
<b>NTP:</b>	None known
<b>IARC Monographs:</b>	None known
<b>OSHA Regulations:</b>	None known
<b>ACGIH</b>	None known

<b>SECTION 4</b>	<b>FIRST AID MEASURES</b>
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<b>Emergency and First Aid Procedures:</b>	<b>Eye contact:</b>	If product contacts eyes, flush immediately with water for several minutes.
	<b>Skin contact:</b>	If product contacts skin, rinse with water for several minutes within a reasonable period of time after contact occurs.
	<b>Ingestion:</b>	If product is ingested, drink several glasses of water. Do not induce vomiting. Consult a physician.
	<b>Inhalation:</b>	If product is inhaled, remove to fresh air. Obtain medical attention.
<b>Note to Physicians:</b>	Treat symptomatically	
<b>Special Precautions/Procedures:</b>	None known	

<b>SECTION 5</b>	<b>FIRE-FIGHTING MEASURES</b>
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<b>Unusual Fire Fighting procedures:</b>	None required	NFPA 
<b>Flash Point:</b>	None detected	
<b>Flash Point Method:</b>	Pensky Martens	
<b>Burning Rate:</b>	Does not burn	
<b>Autoignition Temperature:</b>	Not available	
<b>Flammable limits in air (% by volume):</b>	Not applicable	
<b>LEL:</b>	Not applicable	
<b>UEL:</b>	Not applicable	
<b>Flammability Classification:</b>	Not flammable	
<b>Extinguishing Media:</b>	Compatible with all media	
<b>Unusual Fire or Explosion Hazards:</b>	None known	
<b>Fire-Fighting Instructions:</b>	Do not release runoff from fire control methods to sewers or waterways.	
<b>Fire-Fighting Equipment:</b>	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.	
<b>Unusual Fire Fighting procedures:</b>	Not required	

**SECTION 6****ACCIDENTAL RELEASE MEASURES**

<b>Spill/Leak Procedures:</b>	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.
<b>Small Spills:</b>	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.
<b>Large Spills:</b>	Large spills should be diked and pumped.
<b>Containment:</b>	For large spills, dike far ahead of liquid spill for later disposal.
<b>Regulatory Requirements:</b>	Follow applicable OSHA regulations (29 CFR 1910.120).

**SECTION 7****HANDLING AND STORAGE**

<b>Handling Precautions</b>	Wear impermeable gloves and other protective clothing to avoid prolonged or repeated skin contact. When handling, wear eye protection.
<b>Storage Requirements:</b>	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**

<b>Engineering Controls</b>	Provide general or local exhaust ventilation systems.
<b>Ventilation:</b>	
<b>Administrative Controls</b>	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.
<b>Respiratory Protection:</b>	
<b>Protective Clothing/Equipment:</b>	Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles.
<b>Work and Hygienic Practices:</b>	No special requirements. Wash or rinse hands before touching eyes or contact lenses, and before eating.
<b>Safety Stations:</b>	Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
<b>Contaminated Equipment:</b>	Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.
<b>Comments:</b>	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**

<b>Appearance and odor:</b>	Light blue, clear liquid with a slightly bitter or mild detergent odor.
<b>Boiling Point (760 mm Hg):</b>	215°F±2°.
<b>Freezing/Melting Point:</b>	31.5°F
<b>Specific Gravity (water =1):</b>	1.000-1.025
<b>Vapor Density (air =1):</b>	<1
<b>Percent Volatile by Volume:</b>	NIL
<b>Evaporation Rate (butyl acetate =1):</b>	<1
<b>Solubility in Water (% by wt):</b>	100%
<b>Vapor Pressure (at 20°C):</b>	20mm Hg.
<b>pH:</b>	9.75-10.5

<b>SECTION 10</b>		<b>STABILITY AND REACTIVITY</b>
<b>Stability:</b>	Stable	
<b>Polymerization:</b>	Hazardous polymerization cannot occur.	
<b>Chemical Incompatibilities:</b>	None	
<b>Conditions to Avoid:</b>	Avoid contact with strong acids and strong oxidizers	
<b>Hazardous decomposition products:</b>	This product does not burn, but if involved in a fire small quantities of carbon and nitrogen oxides can be generated in extreme conditions.	
<b>SECTION 11</b>		<b>EXPOSURE TOXICOLOGICAL INFORMATION</b>
<b>Eye Effects:</b>	Irritating to eyes	
<b>Skin Effects:</b>	Can be irritating to skin upon prolonged contact	
<b>Acute Inhalation Effects:</b>	Significant vapors are only generated at elevated temperatures; may irritate nose and respiratory system.	
<b>Acute Oral Effects:</b>	Can cause irritation to mouth, throat and stomach	
<b>Chronic Effects:</b>	None known	
<b>Carcinogenicity:</b>	Neither product nor its ingredients are listed by IARC, NTD or OSHA	
<b>Mutagenicity:</b>	Not mutagenic	
<b>Teratogenicity:</b>	Not Teratogenic	
<b>SECTION 12</b>		<b>ECOLOGICAL INFORMATION</b>
<b>Ecotoxicity:</b>	Not determined	
<b>Environmental Fate:</b>	Decomposes to carbon, oxygen, nitrogen and water.	
<b>Environmental Degradation:</b>	Biodegradable	
<b>Soil Absorption/Mobility:</b>	Not determined	
<b>SECTION 13</b>		<b>DISPOSAL CONSIDERATIONS</b>
<b>Waste disposal method:</b>	Sanitary landfill or incinerate in approved facilities in accordance with local, state and federal regulations.	
<b>Disposal Regulatory Requirements:</b>	This product, if unused, does not meet the RCRA criteria for being identified as a hazardous waste by characteristics.	
<b>Container Cleaning and Disposal:</b>	Containers should be cleaned of residual product before disposal, and disposed of in accordance with all applicable laws and regulations.	
<b>SECTION 14</b>		<b>TRANSPORT INFORMATION</b>
<b>DOT Shipping Name:</b>	Not regulated	
<b>Shipping Symbols:</b>	Not applicable	
<b>Hazard Class:</b>	Not applicable	
<b>DOT Identification No.:</b>	Not regulated	
<b>Packing Group:</b>	Not applicable	
<b>Label:</b>	Not applicable	
<b>Special Provisions (172.102):</b>	Not applicable	
<b>Packaging Authorizations</b>		
a) Exceptions:	Not applicable	
b) Non-bulk Packaging:	Not applicable	
c) Bulk Packaging:	Not applicable	
<b>Quantity Limitations</b>		
a) Passenger, Aircraft, or Railcar:	Not applicable	
b) Cargo Aircraft Only:	Not applicable	
<b>Vessel Stowage Requirements</b>		
a) Vessel Stowage:	Not applicable	
b) Other:	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.**

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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.**