

**Product Name: CLEANSAFE X278**

SDS No.: 3005

Issue Date: 5/28/2015

Version No.: 6

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: CLEANSAFE X278

Description: Super Concentrate, General Purpose, Heavy-Duty Cleaner/Degreaser  
Product Code: CSX278  
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

Telephone: 1-800-513-4959 or 1-303-300-6525  
Fax: 1-801-340-0217  
Email: [sds@additivetech.com](mailto:sds@additivetech.com) SDS on-line: [www.additivetech.com](http://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.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>Concentration</u>
Potassium Hydroxide	1310-58-3	<2%
Proprietary, Non-Hazardous Surfactant Blend	N/A	N/A
Water	7732-18-5	Balance
Synonyms:	N/A	

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### 4. FIRST AID MEASURES

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.

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### 5. FIREFIGHTING MEASURES

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

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### 6. ACCIDENTAL RELEASE MEASURES

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.

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## 7. HANDLING AND STORAGE

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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits

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

### Personal Protective Equipment

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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Clear very light yellow liquid (no dye) or Blue (with dye)
Odor:	Slight, Soap-like
Odor Threshold:	N/A
pH:	12.5-13.5
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:	1.046-1.065
Density:	8.72-8.88 lbs/gal
Solubility in Water:	Complete
Partition Coefficient:	N/A
Autoignition Temperature:	N/A
Decomposition Temperature:	N/A
Viscosity:	<100 cPs

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## 10. STABILITY AND REACTIVITY

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.

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## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Component	CAS Number	Test	Toxicity
CLEANSAFE X278	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.

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## 12. ECOLOGICAL INFORMATION

### Acute Ecotoxicity

Component	CAS Number	Organism	Ecotoxicity
CLEANSAFE X278	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

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

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### 13. DISPOSAL CONSIDERATIONS

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.

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### 14. TRANSPORT INFORMATION

#### DOT Information

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.

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### 15. REGULATORY INFORMATION

#### US Federal

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

TSCA Inventory: All chemicals listed

#### European Union

EC Inventory: All chemicals listed

#### State Regulations

CA Prop 65: No chemicals listed

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### 16. OTHER INFORMATION

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