

MATERIAL SAFETY DATA SHEET
(Prepared According to 29 CFR 1910.1200)

Date Prepared: 11/01/2004

Code:5320

SECTION 1 - PRODUCT IDENTIFICATION

Distributor: Custom Solutions	Emergency Phone: 800.309.5869
Address: 900 East 103rd Street, Chicago, IL 60628	Prepared By: LPL
Trade Name: Acidulade	Product Type: Acid Detergent Concentrate

SECTION 2 - INGREDIENTS

CHEMICAL NAME/COMMON NAME	CAS NO.	WT. %(opt)	TLV(Source)	TITLE III, SECT. 313
Phosphoric Acid (Sect. 313)	7664-38-2	3-10%	1 Mg/M3 (TWA);	Yes
Glycolic Acid	79-14-1	3-10%	None Established	No
Sulfamic Acid	5329-14-6	3-10%	None Established	No
2-Butoxyethanol (Sect. 313)	111-76-2	3-10%	25ppm (TWA) (Skin*)	Yes
Water	7332-18-5		None Established	No

SECTION 3 - PHYSICAL DATA

Boiling point (°F.) 212°F	Specific Gravity (H2O=1.0) 1.05 ± 0.005	pH 1.0 ± 0.5
Vapor Pressure (mm Hg) Not Determined	Vapor Density (Air=1) Not Determined	
Solubility in water <input checked="" type="checkbox"/> Complete <input type="checkbox"/> Insoluble <input type="checkbox"/> Emulsifiable (or Dispersible) <input type="checkbox"/> Slight (or Partial)		
Evaporation Rate (vs. H2O) <input type="checkbox"/> Faster <input type="checkbox"/> Slower <input checked="" type="checkbox"/> About the Same	Appearance and Odor	Clear, blue-green liquid with spearmint odor.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (T.C.C.) °F. <input checked="" type="checkbox"/> None to Boiling	Flammable Limits N/A	Upper Lower
Extinguishing Media	Product is noncombustible. Water Spray (Fog), Dry Chemical; CO2; or Foam may be used where product is stored.	
Special Firefighting Procedures	Do not enter confined fire-spaces without protective clothing and self-contained air supply.	
Unusual Fire and Explosion Hazards	None	

SECTION 5 - REACTIVITY DATA

Stability Stable	Incompatibility Alkalis, oxidizing or reducing materials, cyanides, sulfides, combustible materials.
Hazardous Decomposition Products	Burning may produce toxic fumes, acid vapors, hydrogen and other substances.

SECTION 6 - HEALTH HAZARD DATA

Primary Routes of Exposure <input checked="" type="checkbox"/> Eye <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Oral <input type="checkbox"/> Inhalation <input type="checkbox"/> Other	
Signs and Symptoms Of Overexposure (Acute)	Corrosive to all body tissues by all routes of exposure. Contact with skin can produce severe burns & destroy tissues; irritation may be delayed. Contact with eyes may cause severe burns, permanent damage & possibly blindness. Harmful or fatal if swallowed — causes severe burns of the mouth, throat & stomach. Inhalation of generated mists or spray can cause respiratory irritation or damage.
Signs and Symptoms of Overexposure (Chronic)	Chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis. Contains materials which can absorb through skin in potentially harmful amounts .
Medical Conditions Aggravated by Overexposure	An existing dermatitis.
Carcinogen or Suspect Carcinogen Ingredients <input type="checkbox"/> NTP <input type="checkbox"/> IARC <input type="checkbox"/> OSHA <input checked="" type="checkbox"/> NONE	

SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

Eyes	Flush with water for at least 15 minutes and call a physician immediately.
Skin	Wash with large amounts of soap and water. If irritation persists, consult a physician.
Ingestion	Do not induce vomiting! If victim is conscious & alert, give 2 glasses of water, milk or milk of magnesia. Get immediate medical attention.
Inhalation	Not an expected route of exposure. If vapors or mists cause irritation, remove subject to fresh air.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection	Specific use conditions (spraying/confined spaces) may require local exhaust ventilation to prevent release of mist and/or vapors into work environment. If ventilation is not adequate, use a NIOSH/MSHA approved respirator with acid mist/gas cartridges & full face piece.
Ventilation Requirements Normal <input type="checkbox"/> Local Exhaust <input checked="" type="checkbox"/> Mechanical <input type="checkbox"/> Other	Eye Protection Chemical Goggles/Face Shield
Protective Gloves Rubber	Other Protective Clothing Impervious protective clothing appropriate to minimize contact (ie: boots, apron, faceshield) depending on operation.

SECTION 9 - SPILL OR LEAK PROCEDURES

Steps To Be Taken If Released or	Spills can create an extreme slip hazard. Stop leak if you can do it without risk. Restrict entry to spill area & dike large spills to prevent run off. Mop, pump or take up with inert absorbent & reclaim for reuse, recycle or proper disposal.
Waste Disposal Methods	Dispose of in an approved waste facility according to Federal, State and local regulations.

SECTION 10 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken In Handling and Storage	WARNING: Corrosive Liquid. Handle all containers carefully. Do not mix with bleach or other oxidizing materials. Keep container closed when not in use. Wash thoroughly after handling. Do not get in eyes, on skin or clothing. D.O.T. Classification : Corrosive liquid, acidic, organic, n.o.s. (Phosphoric Acid), 8, UN3264, PGIII. (ORM-D in containers of 1 gal or less).
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The health hazards given on this Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

HMIS
HAZARD
RATING

HEALTH	3*
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	X

0 - LEAST
1 - SLIGHT
2 - MODERATE
3 - HIGH
4 - EXTREME