

# MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION						
<b>NFPA Rating:</b> Health-1; Flammability-0; Reactivity-0; Special- -			<b>HMIS Rating:</b> Health-1; Flammability-0; Reactivity-0; Personal Protection-2			
Manufacturer's Name: <b>Americas Industrial Supply</b>			<b>DOT Hazard Classification:</b> NOT REGULATED			
Address: 2893 Wood Hollow Way Bountiful, Utah 84010			<b>Identity</b> (trade name as used on label): <b>LF - Aluminum safe hot tank cleaner powder</b>			
Date Prepared: 05/03/2007		Prepared By: S H		<b>MSDS Number:</b> Revision - 2		
Information Calls: (801)295-3499			NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA			
<b>EMERGENCY RESPONSE NUMBER: 1(800)916-5027</b>						
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
				TWA ceiling	TWA ceiling	
<b>SODIUM METASILICATE</b>		6834-92-0	NO	15 MG/M3	10 MG/M3	d
<b>SODIUM CARBONATE</b>		497-19-8	NO			d
Polyethylene glycol mono(nonyl phenyl) ether		9016-45-9	No	N/E	N/E	d
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
<b>Boiling Point:</b> N/A			<b>Specific Gravity</b> (H2O=1): 2.12			
<b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): N/A			<b>Vapor Pressure</b> (Non-Aerosols)(mm Hg and Temperature): N/D			
<b>Vapor Density</b> (Air = 1): N/D			<b>Evaporation Rate</b> (water = 1): N/A			
<b>Solubility in Water:</b> Miscible			<b>Water Reactive:</b> YES			
<b>Appearance and Odor:</b> white powder with no odor						
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
<b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols) N/A		<b>Auto Ignition Temperature</b> N/A		<b>Flammability Limits in Air by % in Volume:</b> % LEL: N/A      % UEL: N/A		
<b>FLASH POINT AND METHOD USED</b> (non-aerosols): Non-combustible			<b>EXTINGUISHER MEDIA:</b> Non-combustible. Use media suitable for surrounding fire.			
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Non-combustible. Use procedures appropriate to surrounding fire.						
<b>Unusual Fire &amp; Explosion Hazards:</b> Contact with aluminum or other reactive metals may liberate explosive hydrogen gas.						
SECTION 4 - REACTIVITY HAZARD DATA						
<b>STABILITY</b> [ X ] STABLE [ ] UNSTABLE			<b>HAZARDOUS POLYMERIZATION</b> [ ] WILL [ X ] WILL NOT OCCUR			
<b>Incompatibility</b> (Mat. to avoid): acid products, water creates some heat . prolonged contact with metals such as aluminum, tin, lead may produce hydrogen gas.			<b>Conditions to Avoid:</b> None.			
<b>Hazardous Decomposition Products:</b> None						
SECTION 5 - HEALTH HAZARD DATA						
<b>PRIMARY ROUTES OF ENTRY:</b> [ X ] INHALATION [ X ] INGESTION [ X ] SKIN ABSORPTION [ X ] EYE [ ] NOT HAZARDOUS						
<b>ACUTE EFFECTS:</b> Corrosive to all body tissues with which it comes in contact.						
<b>Inhalation:</b> Airborne concentrations of mist or spray may cause damage to the upper respiratory tract & even lung tissue which could produce chemical pneumonia, depending on severity of exposure.						
<b>Eye Contact:</b> May cause severe burns that result in damage & even blindness.			<b>Skin Contact:</b> May cause severe burns on prolonged contact.			
<b>Ingestion:</b> Can cause severe burns on mucous membranes of mouth, throat, esophagus, stomach. Do not induce vomiting this will further burn throat. If swallowed give large quantities of water or if available several glasses of milk. Seek medical attention immediately.						
<b>CHRONIC EFFECTS:</b> Tissue damage depending on location and degree of exposure.						
<b>Medical Conditions Generally Aggravated by Exposure:</b> Dermatitis.						
EMERGENCY FIRST AID PROCEDURES						
<b>Eye Contact:</b> Immediately flush with large amounts of water for 15 minutes while holding lids apart, then seek medical attention.						
<b>Skin Contact:</b> Immediately remove contaminated clothing & footwear & wash contaminated areas with plenty of water for 15 minutes. If tissue damaged, seek medical attention.						
<b>Inhalation:</b> Remove to fresh air. Give oxygen if breathing difficult, artificial respiration if breathing has stopped. Get prompt medical attention						
<b>Ingestion: DO NOT INDUCE VOMITING.</b> Drink 3 to 4 glasses of water, milk if available. Get immediate medical attention. Never give anything by mouth to an unconscious person.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
<b>Respiratory Protection (specify type):</b> None required under normal use and handling conditions. Use NIOSH/MSHA approved respirator where mist or spray may be generated.						
<b>Protective Gloves:</b> Rubber or neoprene			<b>Eye Protection:</b> Chemical goggles.			
<b>Ventilation Requirements:</b> Normal room ventilation is generally adequate. Use adequate local exhaust ventilation where mist or spray may be generated.						
<b>Other Protective Clothing &amp; Equipment:</b> Clothing as needed to minimize contact.						
<b>Hygienic Work Practices:</b> Do not eat, drink or smoke in work area. Wash immediately on contact.						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
<b>Steps To Be Taken If Material Is Spilled Or Released:</b> Sweep up dry product. Place in properly labeled, sealed, non-leaking containers for proper disposal.						
<b>Waste Disposal Methods:</b> Dispose of in accordance with all local, state and federal regulations.						
<b>Precautions To Be Taken In Handling &amp; Storage:</b> Store in original shipping containers. Keep closed when not in use. Shelf life 1 year. Protect from extreme wet conditions. Avoid bodily contact.						
<b>Other Precautions &amp;/or Special Hazards:</b> KEEP OUT OF REACH OF CHILDREN. Read & follow label directions.						

*We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.*

**\*\* Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only**