

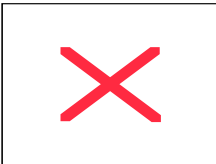



NFPA 	HCS Risk Phrases HCS CLASS: Irritating substance	Protective Clothing 
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Section I. Chemical Product and Company Identification				
Common Name/ Trade Name	ERYTHORBIC ACID	Revision Date: 12/07/06		
Supplier	FRITZ INDUSTRIES, INC. 500 SAM HOUSTON ROAD MESQUITE, TX 75149 (972) 285-5471 (800) 955-1323	In Case of Emergency. (800) 424-9300 Week Days: (972) 285-5471 (800) 955-1323		
Chemical Family	Organic Acid			
Section II. Composition and Information on Ingredients				
Name	CAS #	% by Weight	TLV/PEL	LC ₅₀ /LD ₅₀
Erythorbic Acid	89-65-6	> 99.5	N/A	LD ₅₀ = 18 gm/kg (oral, rat)
Section III. Hazards Identification				
Emergency overview	May cause irritation. Avoid breathing vapors or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes.			
Eye contact	May irritate the eyes. Symptoms include stinging, tearing, redness, and swelling of the eyes.			
Skin	Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage.			
Inhalation	May cause irritation of the respiratory tract.			
Ingestion	Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.			
Section IV. First Aid Measures				
Eye Contact	Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Get medical attention immediately.			
Skin Contact	Immediately flush skin with plenty of soap and water for at least 15 minutes. Cover the irritated skin with an emollient. Get medical attention if symptoms persist. Thoroughly wash clothing and shoes before reuse.			
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.			
Ingestion	Have conscious person drink several glasses of water or milk. Induce vomiting by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Never give an unconscious person anything to ingest. Seek medical attention.			
Section V. Fire and Explosion Data				
Flammability of the Product	N/A			
Autoignition Temperature	N/A			
Unusual Fire & Explosion Hazards	Emits toxic fumes under fire conditions. Forms explosion mixtures in air. Container explosion may occur under fire conditions. Generates flammable and/or explosive hydrogen gas in contact with chemically active metals.			
Fire Fighting Media and Instructions	Use water spray, dry chemical powder, carbon dioxide, or appropriate foam.			
Section VI. Accidental Release Measures				
Leak/Spill	Wear respirator, chemical safety goggles, rubber boots & heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.			
Section VII. Handling and Storage				

Handling	Keep away from heat and sources of ignition. Empty containers pose a fire risk; evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.		
Storage	Keep container in a cool, dry, well-ventilated place. Ground all equipment containing material. Keep container tightly closed. Combustible materials should be stored away from extreme heat and strong oxidizing agents.		
Section VIII. Exposure Controls/Personal Protection			
Engineering Controls	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.		
Personal Protection	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls (as appropriate) to prevent skin contact. Wear chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator		
Section IX. Physical and Chemical Properties			
Physical state and Appearance	Crystalline powder or granules	Odor:	Odorless
		Color:	White to light yellow
Molecular Weight	176.13	Freezing/Melting Point	169-172°C
pH	N/A		
Solubility	Slightly soluble		
Section X. Stability and Reactivity Data			
Stability	Stable		
Incompatibility with various substances	Strong oxidizing agents, strong bases, chemically active metals, aluminum, zinc, magnesium, and copper.		
Hazardous Decomposition Products	Carbon dioxide and carbon monoxide.		
Conditions to Avoid	Incompatible materials, flames, dust generation.		
Section XI. Toxicological Information			
Primary Routes of Exposure	Eye and skin contact; inhalation of dust; ingestion.		
Toxic Effects on Humans	May cause eye irritation. Causes irritation to skin, digestive and respiratory tracts.		
Section XIV. Transport Information			
DOT Classification	Not regulated under the Transport of Dangerous Goods Act.		
Section XV. Other Regulatory Information and Pictograms			
Other Classifications	WHMIS (Canada) Canadian DSL Inventory Status	Not controlled under WHMIS. CAS# 89-65-6 is listed on Canada's DSL List.	
Section XV. Other Regulatory Information and Pictograms (cont.)			
HMIS (U.S.A.)		National Fire Protection Association (U.S.A.)	Health 
			Fire Hazard
			Reactivity
			Specific Hazard
Section XVI. Other Information			
Notice to Reader			
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