

MATERIAL SAFETY DATA SHEET

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SECTION I				
Product Identity (Name / Number)	DISSOLVE (previously called Lime Solve) Acid Lime Cleaner & Toilet Bowl Cleaner / #9639 (9.5%, 26%, etc.)			
Chemical Family	Acid Blend. Corrosive liquids, n.o.s. (contains Hydrochloric acid), 8, UN1760, PGII. (in quarts: Limited Quantities. Excepted from DOT regulations.)			
SECTION II - Hazardous Ingredients				
Hazardous Components	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Hydrochloric Acid	5ppm	5ppm	N/A	Proprietary
SECTION III - Physical & Chemical Characteristics				
Boiling Point	Above 150°F	Specific Gravity	1.1	
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A	
pH	1	Evaporation Rate (Ethyl Ether=1)	Less than 1	
Solubility in Water	Complete	Appearance / Odor	Clear Colorless, Amber or Brown Liquid / Pungent	
SECTION IV - Fire & Explosion Hazard Data				
Flammable Limits (Explosive Limit)	Upper:	N/A	Lower:	N/A
Flash Point (Method Used)	N/A			
Extinguishing Media	Material is nonflammable. Water spray may be used for surrounding fires.			
Special Fire Fighting Procedures	Product is not flammable, but may react with metals to liberate hydrogen gas and phosphorous compounds. Vapor is also a health hazard. Firefighters should be equipped with NIOSH approved respirators, fully enclosed, and full protective acid resistant clothing.			
Unusual Fire and Explosion Hazards	N/A			
SECTION V - Reactivity Data				
Stability:		Unstable	X	Stable
Hazardous Polymerization:	X	Will Not Occur		May Occur
Conditions To Avoid	Excessive heat			
Incompatibility (Materials to Avoid)	Sulfides, sulfites, strong alkalines and alkali metals			
Hazardous Decomposition or Byproducts	N/A			

SECTION VI(a) - Health Hazard Data			
Inhalation	Irritating and corrosive to mucous membranes. Breathing mists may cause damage to nasal and respiratory passages.		
Eye	Even slight contact of the liquid with eyes will result in irritation and severe burns.		
Skin	Product is corrosive and will cause skin burns. It may not immediately cause burning upon skin contact. Burning sensation may be delayed. Treat immediately.		
Ingestion	Swallowing will result in severe damage to mucous membranes.		
Reported As Potential Carcinogen or Carcinogen			
	International Agency for Research on Cancer	X	Not Applicable
	National Toxicology Program		OSHA
SECTION VI(b) - First Aid Procedures			
Inhalation	Remove victim to fresh air. If breathing is difficult, administer oxygen. If not breathing, perform artificial respiration. Get medical attention.		
Eye	Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get medical attention.		
Skin	Remove contaminated clothing. Wash affected area thoroughly with water for at least 15 minutes. Get medical attention.		
Ingestion	DO NOT induce vomiting. If conscious and alert, give large quantities of water. Follow by administering milk or 2 oz. of milk of magnesia. Get medical attention ASAP.		
SECTION VI(c) - Employee Protection			
Respiratory Protection (Utilize NIOSH approved respirators. Refer to manufacturer's protection factors and OSHA standard 1910.134 as a guideline.) If TLV of hazardous ingredients is exceeded, use NIOSH approved respirator, fully enclosed.			
<u>SPECIAL PROTECTION INFORMATION:</u>			
EYE	Chemical splash goggles or face shield are required.		
SKIN	Use nitrile or neoprene impermeable gloves.		
VENTILATION	Provide sufficient mechanical ventilation to maintain exposure below TLV's.		
SPECIAL PROTECTION	Impervious clothing and boots may be worn to prevent skin contact.		
SECTION VII - Special Precautions			
Handling and Storage	Store in dry, cool area. Excessive heat may cause pressure build-up. Avoid contact with sulfides and sulfites. Do not store with strong alkalines or alkali metals. Empty container may retain product residue.		
Other Precautions	Addition of water releases heat which may result in boiling or splattering. Always add acid to water slowly in small amounts.		
SECTION VIII - Environmental Protection			
Spills / Releases	Cover area with sodium (bi)carbonate; mix with water to form slurry. Scoop up and wash site with soda ash solution. Notify authorities for spills of 1,000 Lb. or more.		
Waste Disposal Method	Neutralize acidity with sodium carbonate. Flush down drain with large amounts of water in accordance with applicable local, state and federal regulations.		

DISCLAIMER The information contained herein is based upon data available to us and reflects our best professional judgement. Since it is impossible to anticipate the conditions under which our products may be used, we cannot guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product for his particular purpose and should comply with all federal, state and local regulations. Our goal is to manufacture products with zero or minimal hazards. Our products are improved daily as up-to-date information and research is received from our suppliers to use products with less or no hazards. Please feel free to contact us for current information.