

L.T.M. LEBANESE TEXTILE MILLS
BLDG. 27, ST. ELIAS STREET
MKALLES, LEBANON,

Section I. Chemical Product and Company Identification

Product Name/Trade Name	SOUR LIQUID NEUTRAL. BRIGHTNER	Code	1425
Chemical Family	Acid.	In case of Emergency	
Manufacturer	AVMOR LTD 433 Ste-Hélène Montreal (Quebec) H2Y 2L1	Material Uses	Industrial applications: Liquid neutralizer brightener.

Section II. Composition and Information on Ingredients

Name	CAS #	% by Weight	TLV/PEL	LC50/LD50
Oxalic acid	144-62-7	1-5	Not available.	ORAL (LD50): Acute: 375 mg/kg [Rat.]. DERMAL (LD50): Acute: 20000 mg/kg [Rabbit.].
Silicofluoric acid	16961-83-4	10-30	Not available.	Not available.

Section III. Hazards Identification

Potential Acute Health Effects	Dangerous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion, of inhalation: liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Severe over exposure by ingestion or inhalation may be harmful.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated exposure may cause chronic eye, respiratory tract and skin irritation.

Section IV. First Aid Measures

Eye contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.
Skin contact	Wash the skin with running water and non-abrasive soap. COLD water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.
Hazardous Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Hazardous Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.
Ingestion	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.
Hazardous Ingestion	DO NOT induce vomiting. If the victim is not breathing, perform mouth-to-mouth resuscitation or administer oxygen. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.

Section V. Fire and Explosion Data

Flammability of the Product	Non-flammable.
Auto-Ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	Carbon oxides (CO, CO2) halogenated compounds
Fire Hazards in Presence of Various Substances	Non-flammable in presence of open flames and sparks, of heat, of oxidizing materials, of reducing materials, of combustible materials.
Explosion Hazards	No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.
Fire Fighting Media and	SMALL FIRE: Use DRY chemicals, CO2, water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.

Section VI. Accidental Release Measures

Small Spill	Absorb with an inert DRY material and place in an appropriate waste disposal container. Dispose of in accordance with federal, provincial, or local regulations.
Large Spill	Corrosive liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Use water spray curtain to divert vapor drift and reduce vapors. Avoid that product enters sewers, basements or any other closed space. Eliminate all ignition sources. Call for assistance on disposal.

Section VII. Handling and Storage

Precautions	S1/2- Keep locked up and out of the reach of children. S23- Do not breathe gas/fumes/vapor/spray S24/25- Avoid contact with skin and eyes. S26- In
Storage	Keep away from heat, metals and oxidizing materials. Strong acids that are not strong oxidants should be stored in a separate safety storage cabinet or room. Keep container tightly closed in a cool, well-ventilated place.

Section VIII. Exposure Controls/Personal Protection

Gloves	Gloves (impervious)
Respiratory	In case of insufficient ventilation, wear suitable respiratory equipment.
Eyes	Splash goggles. Face shield
Other	Full suit, apron, face shield, respiratory mask, boots: are recommended under exceptional circumstances such as fire, spill, or for prolonged contact with bulk quantities.
Exposure Limits	Not available.

Section IX. Physical and Chemical Properties

Physical state and appearance	Liquid. (Clear.)	Odor	Acid.
Boiling point	The lowest known value is 100°C (212°F) (Water).	Taste	Not available.

Melting Point	May start to solidify at 0°C (32°F) based on data for: Water.	Color	Colorless.	
Critical Temperature	Not available.	Molecular Weight	Not applicable.	
Volatility	Not available.	pH (in Water)	Acidic.	
Evaporation Rate	Not available.	pH (concentrate)		1/2/2000
Vapor Pressure	The highest known value is 2.3 kPa (at 20°C) (Water).	Vapor density	The highest known value is 1 (Air = 1) (Water).	
Inocity (in Water)	Not available.	Specific Gravity	1.19 to 1.21 (Water = 1)	
Dispersion Properties	See solubility in water, methanol.	Viscosity	Not available.	
Solubility	Easily soluble in cold water, hot water, methanol. Insoluble in diethyl ether, n-octanol.	Odor Threshold	Not available.	

Section X. Stability and Reactive Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Reactive with metals.
Corrosivity	Not considered to be corrosive for metals and glass.

Section XI. Toxicological Information

Routes of Entry	Eye contact. Ingestion. Inhalation. Skin contact.
Toxicity to Animals	See section II
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated exposure may cause chronic eye, respiratory tract and skin irritation.
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Section XII. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Carbon oxides (CO, CO2) and water halogenated compounds.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.

Section XIII. Disposal Considerations

Waste Disposal	Dispose of material according to regional, provincial and federal regulations. Consult your local or regional authorities.
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Section XIV. Transport Information

ADR Classification	ADR CLASS 8: Corrosive liquid.
UN/NA	UNNA: 1778
Packing Group	II
Special Provisions for Transport	No additional remark.

Section XV. Other Regulatory Information

DSCL (Classification)	R22- Harmful if ingested. R35- Causes severe burns. R36/37/38- Irritating to eyes, respiratory system and skin.
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Section XVI. Other Information

References
Validated by the Regulatory Affaires Department on 99-12-01 Printed 00-10-23

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