

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

Section I. Chemical Product and Company Identification

Product Name/Trade Name	TORPEDO LIQUID DRAIN CLEANER	Code	1428
Chemical Family	Inorganic acid. (Acid.)	In case of Emergency	
Manufacturer	AVMOR LTD 950 Michelin Laval (Quebec) H7L 5C1	Material Uses	Drain opener

Section II. Composition and Information on Ingredients

Name	CAS #	% by Weight	TLV/PEL	LC50/LD50
Sulphuric acid	7664-93-9	60-100	Not available.	ORAL (LD50): Acute: 2140 mg/kg [Rat.]. VAPOR (LC50): Acute: 255 ppm 4 hour(s) [Rat.].

Section III. Hazards Identification

Potential Acute Health Effects Hazardous in case of skin contact (corrosive, irritant, sensitizer, permeator), of ingestion, of inhalation, of eye contact (irritant). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Can be fatal if ingested.

Potential Chronic Health Effects Hazardous in case of inhalation. The substance is toxic to upper respiratory tract. **CARCINOGENIC EFFECTS:** Not available.

Section IV. First Aid Measures

Eye contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.
Skin contact	Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Seek medical attention. Wash contaminated clothing before reusing.
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. Seek immediate medical attention.
Ingestion	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. NEVER give an unconscious person anything to ingest. Loosen tight clothing. Seek immediate medical attention.
Hazardous Ingestion	DO NOT induce vomiting. SEEK IMMEDIATE MEDICAL ATTENTION Have conscious person drink several glasses of water or milk. NEVER give an unconscious person anything to ingest. If the victim is not breathing, perform mouth-to-mouth resuscitation.

Section V. Fire and Explosion Data

Flammability of the Product	Non-flammable.
Auto-Ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Sulfur oxides (SO2, SO3...)
Fire Hazards in Presence of Various Substances	Not applicable.
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	Use DRY chemicals, CO2, alcohol foam or water spray.

Section VI. Accidental Release Measures

Small Spill	Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.
Large Spill	Corrosive liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT get water inside container. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate.

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	May corrode metallic surfaces. Store in a metallic or coated fibreboard drum using a strong polyethylene inner package.

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, 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	Odorless.
Boiling point	270°C (518°F)	Taste	Not available.
Melting Point	-29°C (-20.2°F)	Color	Red.
Critical Temperature	Not available.	Molecular Weight	Not applicable.
Volatility	0% (v/v).	pH (in Water)	Acidic.
Evaporation Rate	Not available.	pH (concentrate)	0.5-1.5
Vapor Pressure	Weighted average: 0.87 mm of Hg (@ 20°C)	Vapor density	Weighted average: 3.28 (Air = 1)

Inocity (in Water)	Not available.	Specific Gravity	1.84 (Water = 1)
Dispersion Properties	See solubility in water, methanol.	Viscosity	Not available.
Solubility	Easily soluble in cold water, hot water. Soluble in methanol. Insoluble in diethyl ether, n-octanol.	Odor Threshold	5 ppm

Section X. Stability and Reactive Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	No additional remark.
Incompatibility with Various Substances	Extremely reactive or incompatible with reducing agents, organic materials, metals, alkalis, oxidizing agents. The product may undergo hazardous decomposition, condensation or polymerization, it may react violently with water to emit toxic gases or it may become self-reactive under conditions of shock or increase in temperature or pressure.
Corrosivity	Extremely corrosive in presence of steel, of copper. Highly corrosive in presence of aluminum, of zinc. Corrosive in presence of stainless steel(304). Slightly corrosive to corrosive in presence of stainless steel(316).

Section XI. Toxicological Information

Routes of Entry	Absorbed through skin. Inhalation. Ingestion. Eye contact.
Toxicity to Animals	Acute oral toxicity (LD50): 2253 mg/kg (Rat) (Calculated value for the mixture). Acute toxicity of the gas (LC50): 0.361 ppm 4 hour(s) [RAT] Acute toxicity of the vapor (LC50): 268 ppm 4 hour(s) (Rat) (Calculated value for the mixture).
Chronic Effects on Humans	Hazardous in case of inhalation. The substance is toxic to upper respiratory tract. CARCINOGENIC EFFECTS: Not available.
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	Moderate.
BOD5 and COD	All constituents are biodegradable.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.

Section XIII. Disposal Considerations

Waste Disposal	Recycle, if possible. Consult your local or regional authorities.
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Section XIV. Transport Information

ADR Classification	ADR CLASS 8: Corrosive liquid. Acid.
UN/NA	UNNA: 1830 Shipping name: SULPHURIC ACID
Packing Group	II
Special Provisions for Transport	No additional remark.

Section XV. Other Regulatory Information

DSCL (Classification)	R14- Reacts violently with water. R23- Toxic by inhalation. R25- Toxic if swallowed. R35- Causes severe burns.
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Section XVI. Other Information

References	Validated by the Regulatory Affaires Department on 99-12-01	Printed	00-10-30
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