

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

## Section I. Chemical Product and Company Identification

<b>Product Name/Trade Name</b>	VITREX	<b>Code</b>	1379
<b>Chemical Family</b>	Surfactant. 950 Michelin Laval (Quebec) H7L 5C1	<b>In case of Emergency</b>	CALL (???) ???-????

## Section II. Composition and Information on Ingredients

Name	CAS #	% by Weight	TLV/PEL	LC50/LD50
Isopropyl alcohol	67-63-0	60-100	Not available.	ORAL (LD50): Acute: 3600 mg/kg [Mouse].
Ethylene glycol monobutyl ether	111-76-2	10-30	Not available.	ORAL (LD50): Acute: 470 mg/kg [Rat]. DERMAL (LD50): Acute: 220 mg/kg [Rabbit].
Aqua ammonia	1336-21-6	1-5	Not available.	ORAL (LD50): Acute: 350 mg/kg [Rat].

## Section III. Hazards Identification

<b>Potential Acute Health Effects</b>	Extremely dangerous in case of ingestion, of inhalation. Dangerous in case of skin contact (irritant, sensitizer, permeator), of eye contact (irritant).
<b>Potential Chronic Health Effects</b>	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Reproductive system/toxin/female/male. Repeated or prolonged contact with spray mist may produce chronic eye irritation, severe skin irritation and respiratory tract irritation.

## Section IV. First Aid Measures

<b>Eye contact</b>	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. If irritation persists, get medical attention.
<b>Skin contact</b>	Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.
<b>Hazardous Skin Contact</b>	No additional information.
<b>Inhalation</b>	Allow the victim to rest in a well ventilated area. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
<b>Hazardous Inhalation</b>	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 medical attention.
<b>Ingestion</b>	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. NEVER give an unconscious person anything to ingest. SEEK IMMEDIATE MEDICAL ATTENTION.
<b>Hazardous Ingestion</b>	DO NOT induce vomiting. Loosen tight clothing. If the victim is not breathing, perform mouth-to-mouth resuscitation. SEEK IMMEDIATE MEDICAL ATTENTION. Have conscious person drink several glasses of water or milk.

## Section V. Fire and Explosion Data

<b>Flammability of the Product</b>	Flammable.
<b>Auto-Ignition Temperature</b>	400°C (752°F)
<b>Flash Points</b>	OPEN CUP: 25°C (77°F).
<b>Flammable Limits</b>	The greatest known range is LOWER: 2% UPPER: 12% (Isopropanol)
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...) sulfur oxides (SO2, SO3...)
<b>Fire Hazards in Presence of Various Substances</b>	Highly flammable in presence of open flames and sparks. Slightly flammable in presence of heat, of oxidizing materials and of combustible materials.
<b>Explosion Hazards</b>	No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.
<b>Fire Fighting Media and Instructions</b>	Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemicals, CO2, alcohol foam or water spray. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

## Section VI. Accidental Release Measures

<b>Small Spill</b>	Eliminate all sources of ignition and ventilate the area. Absorb with an inert material and place in an appropriate waste disposal container. Finish cleaning the spill area with running water. Dispose of in accordance with federal, provincial, or local regulations.
<b>Large Spill</b>	Flammable liquid. Keep away from heat, from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Prevent entry into sewers, basements or confined areas; dike if needed.

## Section VII. Handling and Storage

<b>Precautions</b>	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
<b>Storage</b>	Keep away from heat, from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. A refrigerated room would be preferable.

## Section VIII. Exposure Controls/Personal Protection

<b>Gloves</b>	Gloves (impervious).
<b>Resiratory</b>	Wear appropriate respirator when ventilation is inadequate.
<b>Eyes</b>	Splash goggles.
<b>Other</b>	Face shield, full suit, boots:are recommended under exceptional circumstances such as fire, spill or for prolonged contactwith bulk quantities.

**Exposure Limits** Not available.

## Section IX. Physical and Chemical Properties

<b>Physical state and appearance</b>	Liquid.	<b>Odor</b>	Irritant.
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<b>Boiling point</b>	82°C (179.6°F)	<b>Taste</b>	Not available.
<b>Melting Point</b>	Weighted average: -66.67°C (-88°F)	<b>Color</b>	Blue. (Dark.)
<b>Critical Temperature</b>	Not available.	<b>Molecular Weight</b>	Not applicable.
<b>Volatility</b>	98% (v/v).	<b>pH (in Water)</b>	Not available.
<b>Evaporation Rate</b>	Not available.	<b>pH (concentrate)</b>	
<b>Vapor Pressure</b>	4.4 kPa (at 20°C)	<b>Vapor density</b>	Greater than air.
<b>Inocity (in Water)</b>	Not available.	<b>Specific Gravity</b>	0.86 (Water = 1)
<b>Dispersion Properties</b>	See solubility in water, methanol, diethyl ether, n-octanol.	<b>Viscosity</b>	Not available.
<b>Solubility</b>	Easily soluble in cold water, hot water, methanol, diethyl ether. Partially soluble in n-octanol.	<b>Odor Threshold</b>	2 ppm

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### Section X. Stability and Reactive Data

<b>Stability</b>	The product is stable.
<b>Instability Temperature</b>	Not available.
<b>Conditions of Instability</b>	Not available.
<b>Incompatibility with Various Substances</b>	Reactive with oxidizing agents, acids.
<b>Corrosivity</b>	Slightly corrosive in presence of copper. Non-corrosive in presence of glass, of stainless steel(304), of stainless steel(316).

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### Section XI. Toxicological Information

<b>Routes of Entry</b>	Ingestion. Skin contact. Inhalation. Eye contact.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 1800 mg/kg [Rat]. Acute dermal toxicity (LD50): 220 mg/kg [Rabbit.]. (2-Butoxyethanol).
<b>Chronic Effects on Humans</b>	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Reproductive system/toxin/female/male. Repeated or prolonged contact with spray mist may produce chronic eye irritation, severe skin irritation and respiratory tract irritation.
<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

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### Section XII. Ecological Information

<b>Ecotoxicity</b>	Moderate.
<b>BOD5 and COD</b>	Not available.
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Toxicity of the Products of Biodegradation</b>	The products of degradation are less toxic than the product itself.

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### Section XIII. Disposal Considerations

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

<b>ADR Classification</b>	Class 3: Flammable liquid A. Class 8: Corrosive substance.
<b>UN/NA</b>	UNNA: 2924 Shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.
<b>Packing Group</b>	III
<b>Special Provisions for Transport</b>	No additional remark.

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### Section XV. Other Regulatory Information

<b>DSCL (Classification)</b>	R26/28- Very toxic by inhalation and if swallowed. R34- Causes burns. R10- Flammable. R43- May cause sensitization
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### Section XVI. Other Information

<b>References</b>	Validated by the Regulatory Affaires Department on 99-12-01	Printed	01-1-15
<b>NOTICE TO READER:</b> To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.			

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