

**MATERIAL SAFETY DATA SHEET**

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**PRODUCT NAME:** ACID CLEANER H.D.  
**OTHER NAME:** DAIRY ACID CLEANER  
**DISTRIBUTED BY:** HOTEL EQUIPMENT & SUPPLY CO. LTD

**CODE:** F375

**WHMIS CLASSIFICATION:** E  
**TDG CLASSIFICATION:** CORROSIVE LIQUID, N.O.S. (SULFURIC, LACTIC ACID);  
Class 8; UN 1760; PG II

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<b>HAZARDOUS INGREDIENTS</b>	<b>%WT/WT</b>	<b>CAS NO.</b>	<b>TOXICITY DATA (LD<sub>50</sub> &amp; LC<sub>50</sub>)</b>
Sulfuric Acid	10-30	7664-93-9	Rat Oral LD50: 2140 mg/kg Rat inhalation LC50: 347 ppm
Lactic Acid 88%	10-30	79-33-4	Rabbit Oral LD50: 3730 mg/kg Rabbit Dermal LD50: 7940 mg/kg

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**PHYSICAL DATA FOR PRODUCT**

Physical State: Liquid  
Boiling Point: Not Avail.  
Vapour Density: 3.4  
Freezing Point: Not Avail.  
Solubility in Water: 100%  
Appearance & Odour: Clear, colorless liquid. No particular odour.

Sp.Gravity: 1.175  
Vapour Pressure: Not Avail.  
Evaporation Rate: Not Avail.

pH: < 1

**FIRE AND EXPLOSION DATA FOR PRODUCT**

Flash Point (Test Method): N/A  
Flammable Limits in Air, % by vol. Non-flammable Lower: N/A Upper: N/A  
Fire Extinguishing Substances: ( ) Water Fog ( ) Foam ( ) CO<sub>2</sub>  
( ) Dry Chem ( ) Other: As for surrounding fire.  
Hazardous Combustion Products: Emits toxic fumes of oxides of phosphorus, nitrogen oxide and hydrogen nitrate.  
Special Firefighting Procedures: Use full protective clothing and self contained breathing apparatus.

**REACTIVITY DATA FOR PRODUCT**

Incompatibility: ( ) Water (X) Oxidizing Material ( ) Acid (X) Base  
(X) Other: Contact with alkaline materials, reactive metals.

Hazardous Decomposition Products: Thermal decomposition liberates toxic and corrosive fumes of nitrogen oxide and hydrogen nitrate and phosphorous oxides. Reaction with some metals produces hydrogen gas.

Chemical Stability: Stable.

\*N/A - Not applicable.

Product Name: **ACID CLEANER H.D.**

**HEALTH HAZARD INFORMATION FOR PRODUCT**

**EMERGENCY and FIRST AID PROCEDURES**

Inhalation: Remove from exposure. If breathing is difficult or discomfort persists, get medical attention.

Ingestion: Do not induce vomiting. Give large quantities of water, milk, egg whites or milk of magnesia. Get medical attention.

Eyes: Flush with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

Skin: Wash off with water. If irritation persists, get medical attention.

**EFFECTS OF OVEREXPOSURE (Acute and Chronic)**

Inhalation: Mist may cause severe irritation to eyes, throat and upper respiratory tract.

Ingestion: May cause severe burns to mouth, throat, esophagus, and stomach, nausea, vomiting. Risk of stomach perforation, convulsions and coma.

Eyes: Severe irritation, chemical burn likely. May cause permanent damage and possible blindness.

Skin: Severe irritation, corrosive to tissue.

**PREVENTIVE MEASURES**

Steps to be taken upon release or spillage (including neutralizing):

Dike and salvage or neutralize. Soda ash and lime are neutralizing agents.

Waste disposal method:

If material cannot be salvaged, it should be neutralized and discharged into a treatment system in accordance with all local, provincial and federal regulations.

Handling and Storage Requirements:

Store in cool, dry, well ventilated area in closed container away from heat sources, metals and oxidizers.

Ventilation Requirements (Local or General):

Use in well ventilated area.

Respiratory Protection:

If excessive vapours or mists are generated, an approved respirator should be used.

Eye Protection:

Chemical Workers goggles or full face shield.

Other Protection:

Gloves and coveralls should be worn.