

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: FORMULA 783

DATE: March 5, 2010

SUPPLIER: Melrose Chemicals Ltd.
2323-46th ave.
Lachine, QC
CANADA H8T 3C9
Tel: +1 (514) 631-2998
Fax: +1 (514) 631-2997
E-mail: prodsafe@melrosechem.com

PRODUCT USE: Scale remover

II. HAZARDS IDENTIFICATION

Hazard classification of product according to Directive 1999/45/EC: T, toxic; C, corrosive

Hazards for humans: Causes burns. Toxic by inhalation, in contact with skin and if swallowed.

Hazards for environment: Strong acid, pH value of water can harm water-organisms.

III. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Identity:	Index #	EINECS #	CAS #	% Conc.	Toxicity
Hydrochloric acid 30%	017-002-01-X	231-595-7	7647-01-0	10 - 30	C; R34, 37
Sulphamidic acid	016-026-00-0	226-218-8	5329-14-6	3 - 7	Xi; R36/38, R52/53
Hydrofluoric acid 52%	009-003-00-1	231-634-8	7664-39-3	7 - 13	T+, C; R26/27/28, 35
Etidronic acid		220-552-8	2809-21-4	3 - 7	
Alcohol C14-15, ethoxylated polymer			68951-67-7	1 - 5	Xn, N; R22, 41, 50

Ingredients according to Directive 2004/648/EC

Phosphonates	<5%
Nonionic surfactants	<5%
Perfume	<5%

IV. FIRST AID MEASURES

Contact with skin: Wash off in flowing water or shower. Wash contaminated clothing before re-use.

Contact with eyes: Immediately flush eyes with water for 15 minutes and call a physician.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

Ingestion: Drink one glass of water immediately. **Do not induce vomiting.** Call Regional Poison Control Centre at once or see your local hospital emergency at once.

V. FIRE FIGHTING MEASURES

Conditions of flammability: Not applicable.

Means of extinction: Not applicable.

Hazardous combustion products: Not applicable.

Unusual fire and explosion hazards: Non combustible material; contact with some metals may generate hydrogen gas.

VI. ACCIDENTAL RELEASE MEASURES

Procedures to be followed in case of spills or leaks: Do not allow chemical to enter sewers or waterways. With large spills, dike for later disposal. Evacuate upwind; wear protective clothing, dilute spilled acid to reduce fumes, neutralize. Protect metal structures from acid.

Personal protective equipment to be used: Protective gloves and safety glasses.

VII. HANDLING AND STORAGE

Special handling procedures and equipment: Smoking or open lights should not be permitted near open drums, tank trucks, or storage tanks. Use explosion proof lights and flashlights. When diluting, always add acid to water, never water to acid. Heat is generated upon dilution.

Specific storage requirements: Do not store near excessive heat or open flame. Store in closed containers. Do not freeze.

VIII. EXPOSURE CONTROL/PERSONAL PROTECTION

Respiratory Protection: Self-contained breathing apparatus must be worn when concentrations are high or unknown. Canister type respirators are suitable when concentrations are known to be very low (<1%).

Protective Gloves: Nitril or neoprene.

Eye Protection: Chemical safety goggles to prevent eye contact.

Additional Protective Equipment: Rubber boots, coat and pants; safety shower and an eye wash facility should be available.

Ventilation: General ventilation with a good source of make-up air recommended for all indoor situations. Local ventilation recommended at source of contamination generation. Ventilation should be adequate enough to maintain air concentrations below the designated exposure limit.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint and method of determination: Not applicable.

Flammable limits (% in air): LOWER: Not applicable. **UPPER:** Not applicable.

Auto-Ignition temp.: Not applicable.

Physical State: Liquid

Vapour density: Not determined.

Coefficient of n-octanol/water distribution: Not determined.

Odour: Sweet, acid.

Boiling Point: 104°C

Specific Gravity: 1.06

Freezing Point: -15°C

Vapour Pressure: Not determined.

pH: 1.2 - 2.5

Evaporation Rate: Not determined.

Colour: Green

Solubility in water: Complete

Odour threshold: Not applicable.

X. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions. Hazardous polymerization will not occur.

Incompatible substances: Avoid strong oxidizing and reducing agents. Will react with solid or liquid alkalis such as sodium hydroxide, potassium hydroxide and ammonium hydroxide.

Conditions of reactivity: Avoid contamination with reactive substances. Do not mix with alkaline materials.

Hazardous decomposition products: Reacts with some metals to produce hydrogen which may form explosive mixtures with air. When heated, hydrogen chloride is released which is corrosive and extremely irritating.

XI. TOXICOLOGICAL INFORMATION

Probable route of exposure: Splashes on skin and in eyes and by inhalation.

Exposure Limits: LD₅₀ (Calculated) 3900 mg/kg

Effect of acute and chronic exposure to product: Causes burns. Toxic by inhalation, in contact with skin and if swallowed.

Irritating: No

Sensitisation to product: No

Carcinogenicity: Data not available.

Reproductive toxicity: Data not available.

Teratotoxicity: Data not available.

Mutagenicity: Data not available.

Name of toxicologically synergistic product(s): Data not available.

XII. ECOLOGICAL CONSIDERATIONS

Environmental toxicity information: Product conforms to the regulations regarding the biodegradability of the surfactants. (Directive 2004/648/EC).

XIII. DISPOSAL CONSIDERATIONS

For the product: EC disposal code №:

20 01 29 (detergent containing dangerous substances).

For the packaging: EC disposal code №:

15 01 02 (plastic packaging). Can be recycled.

XIV. TRANSPORT INFORMATION

MATERIAL SAFETY DATA SHEET
According to 1907/2006/EC, Article 31, Annex II. (REACH).

Page No. 3 of 4

CARRIAGE BY ROAD (CROSSING BORDERS) ADR/RID:

ADR/RID Class: 8 C1
Hazard Identification Number: 80
UN Number: 3264
Packing group: III
Label: 8
UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(Hydrochloric Acid)

TRANSPORT BY SEA IMDG:

IMDG Class: 8
UN Number: 3264
Packing group: III
EMS Number: F-A, S-B
Label: 8
Marine pollutant: No
UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(Hydrochloric Acid)

TRANSPORT BY AIR ICAO-TI and IATA-DGR:

ICAO/IATA Class: 8
UN Number: 3264
Packing group: III
Label: 8
Packing instructions: 818 & 820
UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(Hydrochloric Acid)

XV. REGULATORY INFORMATION

Inventory Status: TSCA (USA), CEPA (Canada, DSL), EINECS (EU), China, TCCL (Korea, KECI), RA 6969 (Philippines, PICCS), NICNAS (Australia, AICS), IEC (Japan).

WHMIS CLASSIFICATION: Class D, div 2a., Class E

Danger symbol: T, toxic; C, corrosive



Risk phrases: 34 Causes burns.

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

Safety phrases: 26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

XVI. OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian *Controlled Products Regulations* and the MSDS contains all the information required by the Canadian *Controlled Products Regulations*.

This Material Safety Data Sheet is in conformation with Directive 1907/2006 (REACH) and local legislation.

R-Sentences of ingredients in paragraph III:

22 Harmful if swallowed.

26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

Product Name: FORMULA 783

0783

MATERIAL SAFETY DATA SHEET
According to 1907/2006/EC, Article 31, Annex II. (REACH).

Page No. 4 of 4

- 34** Causes burns.
- 35** Causes severe burns.
- 36/38** Irritating to eyes and skin.
- 37** Irritating to respiratory system.
- 41** Risk of serious damage to eyes.
- 50** Very toxic to aquatic organisms.
- 52/53** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Replaces: M.S.D. dated: March 5, 2007

Version: 9

Changes to the MSDS in this revision: sections 1, 2, 3, 8, 11, 14, 15, 16

[Français](#)

[Bahasa Malayu](#)

[Español](#)

[Nederlands](#)

[Bahasa Indonesia](#)

[Deutsch](#)