

**I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME: ACID-O-CLEAN-P****DATE: April 22, 2007****SUPPLIER:** Melrose Chemicals Ltd.  
2323-46th ave.  
Lachine, QC  
CANADA H8T 3C9  
Tel: +1 (514) 631-2998  
Fax: +1 (514) 631-2997**PRODUCT USE: Scale remover****II. COMPOSITION/ INFORMATION ON INGREDIENTS**

<b>Chemical Identity:</b>	<b>EINECS #</b>	<b>CAS #</b>	<b>% Conc.</b>	<b>Classification</b>
Ortho phosphoric acid	231-633-2	7664-38-2	30 - 60	C; R34
Nitritotrimethylenetri(phosphonic acid)	229-146-5	6419-19-8	1 - 5	C; R34

**Ingredients according to Directive 2004/648/EC**

Ortho phosphoric acid	>30%
Nitritotrimethylenetri(phosphonic acid)	<5%
Nonionic surfactants	<5%

**III. HAZARDS IDENTIFICATION****Hazard classification of product according to Directive 1999/45/EC:** C, corrosive**Hazards for humans:** Causes burns.**Hazards for environment:** Strong acid, pH value of water can harm water-organisms.**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:** Not applicable.**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:** Not applicable.**Protective Gloves:** Rubber 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:** Not applicable.

**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:** Acid.

**Boiling Point:** 130°C

**Specific Gravity:** 1.275

**Freezing Point:** -20°C

**Vapour Pressure:** Not determined.

**pH:** 1.3 (2.5% solution)

**Evaporation Rate:** Not determined.

**Colour:** Colourless

**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.

**XI. TOXICOLOGICAL INFORMATION**

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

**Exposure Limits:** LD<sub>50</sub> (Calculated) 3900 mg/kg

**Effect of acute and chronic exposure to product:** Causes burns.

**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 №:

06 01 04 (phosphoric and phosphorous acid).

Product diluted at the use concentration (up to 1 to 10) is not a hazardous waste.

**For the packaging:** EC disposal code №:

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

**XIV. TRANSPORT INFORMATION**

**CARRIAGE BY ROAD (CROSSING BORDERS) ADR/RID:**

**ADR/RID Class:** 8 C1

**Hazard Identification Number:** 80

**UN Number:** 1805

**Packing group:** III

**Label:** 8

**UN proper shipping name:** PHOSPHORIC ACID, SOLUTION

**TRANSPORT BY SEA IMDG:**

**IMDG Class:** 8

**UN Number:** 1805

**Packing group:** III

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**EMS Number:** F-A, S-B  
**Label:** 8  
**Marine pollutant:** No  
**UN proper shipping name:** PHOSPHORIC ACID, SOLUTION

## TRANSPORT BY AIR ICAO-TI and IATA-DGR:

**ICAO/IATA Class:** 8  
**UN Number:** 1805  
**Packing group:** III  
**Label:** 8  
**UN proper shipping name:** PHOSPHORIC ACID, SOLUTION

## 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-2b; Class E

**Danger symbol:** C, corrosive



**Risk phrases: 34** Causes burns.

**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 2001/58/EC and local legislation.

R-Sentences of ingredients in paragraph II:

**R34** Causes burns.

**Replaces: M.S.D. dated:** April 22, 2004

**Version:** 8

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