

**I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME: ALKA CLEAN ADDITIVE****DATE: March 11, 2008****SUPPLIER:** Melrose Chemicals Ltd.  
2323-46th ave.  
Lachine, QC  
CANADA H8T 3C9  
Tel: +1 (514) 631-2998  
Fax: +1 (514) 631-2997**PRODUCT USE:** Additive for caustic solutions**II. COMPOSITION/ INFORMATION ON INGREDIENTS**

<b>Chemical Identity:</b>	<b>EINECS #</b>	<b>CAS #</b>	<b>% Conc.</b>	<b>Classification</b>
D-gluconic acid	208-401-4	526-95-4	30 - 60	R 36
<b>Ingredients according to Directive 2004/648/EC</b>				
Amphoteric surfactants	5 - 15%			

**III. HAZARDS IDENTIFICATION****Hazard classification of product according to Directive 1999/45/EC:** Xi, irritant**Hazards for humans:** Irritating to eyes.**Hazards for environment:** Readily biodegradable.**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:** Small amounts - Flush with water.

Large amounts - Contain spill and collect into waste container. Absorb remaining product with earth or sand and dispose of with solid waste. Flush spill area with water.

**Personal protective equipment to be used:** Protective gloves and safety glasses.**VII. HANDLING AND STORAGE****Special handling procedures and equipment:** Not applicable.**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:** Not applicable**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.

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**Odour:** Acid.  
**Specific Gravity:** 1.22  
**Vapour Pressure:** Not determined.  
**Evaporation Rate:** Not determined.  
**Solubility in water:** Complete

**Boiling Point:** 100°C  
**Freezing Point:** -5°C  
**pH:** 1.5  
**Colour:** Yellow to brown  
**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 alkalies such as sodium hydroxide, potassium hydroxide and ammonium hydroxide.  
**Conditions of reactivity:** Avoid contamination with reactive substances.  
**Hazardous decomposition products:** None.

## XI. TOXICOLOGICAL INFORMATION

**Probable route of exposure:** Splashes on skin and in eyes.  
**Exposure Limits:** LD<sub>50</sub> (Calculated) 12000 mg/kg  
**Effect of acute and chronic exposure to product:** Irritating to eyes.  
**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 №:  
07 06 99 (Non-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:** Not applicable.  
**Hazard Identification Number:** Not applicable.  
**UN Number:** Not applicable.  
**Packing group:** Not applicable.  
**Label:** Not applicable.  
**UN proper shipping name:** Not applicable.

### TRANSPORT BY SEA IMDG:

**IMDG Class:** Not applicable.  
**UN Number:** Not applicable.  
**Packing group:** Not applicable.  
**EMS Number:** Not applicable.  
**Label:** Not applicable.  
**Marine pollutant:** No  
**UN proper shipping name:** Not applicable.

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

**ICAO/IATA Class:** Not applicable.  
**UN Number:** Not applicable.  
**Packing group:** Not applicable.  
**Label:** Not applicable.

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UN proper shipping name: Not applicable.

## 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.

**Danger symbol:** Xi, irritant



**Risk phrases:** 36 Irritating to eyes.

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

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:

36 Irritating to eyes.

**Replaces: M.S.D. dated:** June 12, 2006

**Version:** 8

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