

**I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME: OXYCLEAN****DATE: November 9, 2008****SUPPLIER:**

Melrose Chemicals Ltd.  
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**PRODUCT USE:** Chlorinated cleaner**II. HAZARDS IDENTIFICATION****Hazard classification of product according to Directive 1999/45/EC:** C, corrosive.**Hazards for humans:** Causes burns.**Hazards for environment:** Strongly alkaline, pH value of water can harm water-organisms.**III. COMPOSITION/ INFORMATION ON INGREDIENTS**

<b>Chemical Identity:</b>	<b>Index #</b>	<b>EINECS #</b>	<b>CAS #</b>	<b>% Conc.</b>	<b>Toxicity</b>
Potassium hydroxide	019-002-00-8	215-181-3	1310-58-3	10 - 30	C; R35
Sodium hydroxide	011-002-00-6	215-185-5	1310-73-2	5 - 10	C; R35
Sodium hypochlorite, solution 12% Cl active	017-011-00-1	231-668-3	7681-52-9	10 - 30	C, N; R31, 34, 50

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

Chlorine based bleaching agents 15 - 30%

**IV. FIRST AID MEASURES****Contact with skin:** Wash exposed area with soap and water and rinse well.**Contact with eyes:** Flush with plenty of water. Get medical attention if irritation persists.**Inhalation:** Remove to fresh air. Obtain medical attention if irritation persists.**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 flammable.**Means of extinction:** Not applicable.**Hazardous combustion products:** Not applicable.**Unusual fire and explosion hazards:** None**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. 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:** Keep container closed when not in use. Store in a cool and dry location away from acids.**VIII. EXPOSURE CONTROL/PERSONAL PROTECTION****Respiratory Protection:** Use approved air-supplied respirator. Canister type respirators are suitable when concentrations are known to be very low (<1%).**Protective Gloves:** Nitril or neoprene.**Eye Protection:** Safety glasses.**Additional Protective Equipment:** Rubber boots, coat and pants; safety shower and an eye wash facility should be available.**Ventilation:** Adequate ventilation to reduce mists below permissible exposure limits recommended. Handling area may require mechanical ventilation.

**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 available.  
**Coefficient of n-octanol/water distribution:** Not determined.  
**Odour:** Chlorine **Boiling Point:** 100°C  
**Specific Gravity:** 1.21 **Freezing Point:** 0°C  
**Vapour Pressure:** Not available. **pH:** 12.4 (1% solution)  
**Evaporation Rate:** Not available. **Colour:** Light yellow  
**Solubility in water:** Complete **Odour threshold:** Not available.

**X. STABILITY AND REACTIVITY**

**Chemical stability:** Stable under normal conditions. Hazardous polymerization will not occur.  
**Incompatible substances:** Avoid reducing agents and strong acids.  
**Conditions of reactivity:** Avoid contamination with reactive substances.  
**Hazardous decomposition products:** Contact with acid generates heat and liberates chlorine gas.

**XI. TOXICOLOGICAL INFORMATION**

**Probable route of exposure:** Liquid on skin and in eyes.  
**Exposure Limits:** LD<sub>50</sub> (Calculated) 3000 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.  
**Toxic for reproduction:** Data not available.  
**Mutagenicity:** Data not available.  
**Name of toxicologically synergistic product(s):** Data not available.

**XII. ECOLOGICAL CONSIDERATIONS**

**Environmental toxicity information:** Strongly alkaline, pH value of water can harm water-organisms.

**XIII. DISPOSAL CONSIDERATIONS**

**For the product:** EC disposal code No:  
 20 01 39 (detergent containing dangerous substances).  
**For the packaging:** EC disposal code No:  
 15 01 02 (plastic packaging). Can be recycled.

**XIV. TRANSPORT INFORMATION**

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

**ADR/RID Class:** 8 C5  
**Hazard Identification Number:** 80  
**UN Number:** 3266  
**Packing group:** III  
**Label:** 8  
**UN proper shipping name:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium hydroxide)

**TRANSPORT BY SEA IMDG:**

**IMDG Class:** 8  
**UN Number:** 3266  
**Packing group:** III  
**EMS Number:** F-A, S-B  
**Label:** 8  
**Marine pollutant:** No

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**UN proper shipping name:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium hydroxide)

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

**ICAO/IATA Class:** 8  
**UN Number:** 3266  
**Packing group:** III  
**Label:** 8  
**UN proper shipping name:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium hydroxide)

## 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: 31** Contact with acids liberates toxic gas.

**34** Causes burns.

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

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

**46** If swallowed seek medical advise immediately and show this container or label.

## 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 II:

**31** Contact with acids liberates toxic gas.

**34** Causes burns.

**35** Causes severe burns.

**50** Very toxic to aquatic organisms.

**Replaces: M.S.D. dated:** November 9, 2005

**Version:** 8

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

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