

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

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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**

| Chemical Identity: | Index # | EINECS # | CAS # | % Conc. | Toxicity |
|------------------------------------------------|--------------|-----------|-----------|---------|-------------------|
| 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: LD₅₀ (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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