

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**PRODUCT NAME:** 1-2-3**DATE:** October 14, 2008**SUPPLIER:**

Melrose Chemicals Ltd.
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PRODUCT USE: Sewer opener**II. HAZARDS IDENTIFICATION****Hazard classification of product according to Directive 1999/45/EC:** C. corrosive**Hazards for humans:** Causes burns.**Hazards for environment:** Not applicable.**III. COMPOSITION/ INFORMATION ON INGREDIENTS**

Chemical Identity:	Index #	EINECS #	CAS #	% Conc.	Toxicity
Sodium hydroxide	011-002-00-6	215-185-5	1310-73-2	45 - 70	C; R35
Sodium Nitrate		231-554-3	7631-99-4	10 - 30	

Ingredients according to Directive 2004/648/EC

None

IV. FIRST AID MEASURES**Contact with skin:** Immediately flush with large quantities of water. Do not attempt to neutralise with mild acid solution until all areas are flushed thoroughly. Remove contaminated clothing and wash thoroughly before reuse.**Contact with eyes:** Hold eyelids open and wash thoroughly with water for at least 15 minutes. Get medical help promptly.**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:** If victim is conscious, give two glasses of water to drink. Call a physician. Do not give anything by mouth to an unconscious person.**V. FIRE FIGHTING MEASURES****Conditions of flammability:** Not flammable.**Means of extinction:** Not applicable.**Hazardous combustion products:** Not applicable.**Unusual fire and explosion hazards:** Reacts with water, producing toxic and flammable gases.**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:** Avoid prolonged or frequent contact when handling material. Avoid breathing mists or vapour. Handle only in adequately ventilated areas.**Specific storage requirements:** Keep container closed when not in use. Store in a cool and dry location away from oxidizing and reducing agents.**VIII. EXPOSURE CONTROL/PERSONAL PROTECTION****Respiratory Protection:** Dust mask if necessary.**Protective Gloves:** Nitril or neoprene.**Eye Protection:** Safety glasses.**Additional Protective Equipment:** Eye-wash station, safety boots, apron or overalls.**Ventilation:** Use with adequate 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: Solid (granules) **Vapour density:** Not applicable.
Coefficient of n-octanol/water distribution: Not determined.
Odour: None. **Boiling Point:** Not applicable.
Specific Gravity: Not applicable. **Freezing Point:** Not applicable.
Vapour Pressure: Not applicable. **pH:** 12.5 - 13.0 (1% solution)
Evaporation Rate: Not applicable. **Colour:** Red.
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: Highly reactive with metals, acids, moisture.
Conditions of reactivity: Avoid contamination with reactive substances.
Hazardous decomposition products: Reacts with water, producing flammable and corrosive fumes.

XI. TOXICOLOGICAL INFORMATION

Probable route of exposure: Dust on skin and in eyes.
Exposure Limits: LD₅₀ (Calculated) 2000 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: Not applicable.

XIII. DISPOSAL CONSIDERATIONS

For the product: EC disposal code №: 06 02 04 (waste from the manufacture, formulation, supply and use of sodium hydroxide).
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 C6
Hazard Identification Number: 80
UN Number: 3262
Packing group: II
Label: 8
UN proper shipping name: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium Hydroxide)

TRANSPORT BY SEA IMDG:

IMDG Class: 8
UN Number: 3262
Packing group: II
EMS Number: F-A, S-B
Stowage: Category B
Label: 8
Marine pollutant: No

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UN proper shipping name: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium Hydroxide)

TRANSPORT BY AIR ICAO-TI and IATA-DGR:

ICAO/IATA Class: 8
UN Number: 3262
Packing group: II
Label: 8
UN proper shipping name: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium 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-1b; Class E, Class F

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 advise.

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 II:

35 Causes severe burns.

Replaces: M.S.D. dated: October 14, 2005

Version: 8

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

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