

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**PRODUCT NAME: EMERALD****DATE: May 18, 2008****SUPPLIER:**

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PRODUCT USE: Cleaner**II. HAZARDS IDENTIFICATION****Hazard classification of product according to Directive 1999/45/EC:** Xi, irritant**Hazards for humans:** Irritating to eyes.**Hazards for environment:** Not applicable.**III. COMPOSITION/ INFORMATION ON INGREDIENTS**

Chemical Identity:	Index #	EINECS #	CAS #	% Conc.	Toxicity
Na Dodecylbenzenesulphonate		246-680-4	25155-30-0	15 - 40	Xi; R36
Na 2-(2-dodecyloxyethoxy)ethyl sulphate		221-416-0	9004-82-4	5 - 10	Xi; R36
Ingredients according to Directive 2004/648/EC					
Anionic surfactants	5 - 15%				
Nonionic surfactants	<5%				
Perfumes	<5%				
Preservatives	<0.1%				

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:** Not applicable.**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:** 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. 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:** Not applicable.**VIII. EXPOSURE CONTROL/PERSONAL PROTECTION****Respiratory Protection:** Not applicable.**Protective Gloves:** Nitril or neoprene.**Eye Protection:** Safety glasses.**Additional Protective Equipment:** Not applicable.**Ventilation:** Not applicable.**IX. PHYSICAL AND CHEMICAL PROPERTIES****Flashpoint and method of determination:** >93.3°C (C.O.C.)**Flammable limits (% in air):** LOWER: Not applicable. UPPER: Not applicable.

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Auto-Ignition temp.: Not applicable.

Physical State: Liquid

Coefficient of n-octanol/water distribution: Data not available.

Odour: Pleasant

Specific Gravity: 1.04

Vapour Pressure: Data not available.

Evaporation Rate: Data not available.

Solubility in water: Complete

Vapour density: Data not available.

Boiling Point: 104°C

Freezing Point: -2°C

pH: 7.2 - 7.4

Colour: Green

Odour threshold: Data not available.

X. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions. Hazardous polymerization will not occur.

Incompatible substances: Avoid strong oxidizing and reducing agents.

Conditions of reactivity: Avoid contamination with reactive substances.

Hazardous decomposition products: None

XI. TOXICOLOGICAL INFORMATION

Probable route of exposure: Splashes in eyes.

Exposure Limits: LD₅₀ (Calculated) 9000 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 №:

20 01 30 (non-hazardous detergent for municipal or industrial waste collection).

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.

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UN Number: Not applicable.
Packing group: Not applicable.
Label: Not applicable.
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, div. 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 advise.

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* and national legislation.

This Material Safety Data Sheet is in conformation with Directive 1907/2006 (REACH) and local legislation.

R-Sentences of ingredients in paragraph II:

36 Irritating to eyes.

Replaces: M.S.D. dated: May 18, 2005

Version: 8

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

Français

Bahasa Malayu

Deutsch

Nederlands

Bahasa Indonesia

Español