

MATERIAL SAFETY DATA SHEET

Product Code: M0667: File S:\HDCleaner.doc

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SECTION 1 – STATEMENT OF HAZARDOUS NATURE, CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC AND CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO THE ADG CODE.

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Product Name: HD CLEANER

Other names: Alkaline detergent

Use: *Heavy duty industrial detergent*

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview: Corrosive. Causes severe burns to skin, eyes, respiratory tract and gastrointestinal tract. Material is extremely destructive to all body tissues. May be fatal if swallowed. Harmful if inhaled.

Potential Health Effects:

Inhalation: Respiratory tract irritant, may cause serious burns on acute contact. Severe injury is usually avoided by the self-limiting coughing and sneezing symptoms.

Ingestion: Toxic! Corrosive to mucous membranes and may cause perforation of the oesophagus and stomach. Abdominal pain, nausea, vomiting, general gastro-intestinal upset can be expected.

Skin Contact: Irritant, possibly corrosive if contact is prolonged. Soreness, redness, destruction of skin may result.

Eye Contact: Irritant, possibly corrosive to eye tissues. Tearing, redness, pain, impaired vision are symptoms.

Chronic Exposure: Development of a defatting dermatitis on prolonged contact with potassium hydroxide has been reported. Continued irritation may lead to increased susceptibility to respiratory illness. 2-Butoxyethanol absorbed into the system may cause damage to the liver and kidneys with chronic overexposure.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or eye problems, or impaired kidney or respiratory function may be more susceptible to the effects of the substance.

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SECTION 3 – COMPOSITION & INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%
1310-58-3	Potassium Hydroxide	5.25
10213-79-3	Sodium Silicate	< 10
111-76-2	2-Butoxyethanol	< 10
64-17-5	Ethanol	< 10
Materials determined to be non-hazardous		To 100 %

SECTION 4 – FIRST AID MEASURES

First aid procedures given apply to concentrated solutions. Exposures to dilute solutions may not require these extensive first aid procedures.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

SECTION 5 – FIRE FIGHTING MEASURES

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not flush to sewer

SECTION 7 – HANDLING AND STORAGE

Keep in a tightly closed container. Store in a cool, dry, ventilated area. Protect against physical damage. Separate from acids. Protect from freezing.

SECTION 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION

NOHSC Exposure Standards: Potassium Hydroxide [1310-58-3]: TWA 2 mg/m³; STEL – peak limitation

Ethanol: TWA 1000 ppm (1880 mg/m³); STEL not assigned

2-Butoxyethanol: TWA 20 ppm (96.9 mg/m³); STEL 50 ppm (242 mg/m³),

Notices: Skin absorption may be a significant source of exposure

Engineering Controls: Use ventilation to keep airborne contamination below exposure standards.

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Personal Respirators (AS/NZS 1715/ 1716 Approved): Not expected to require personal respirator usage. If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn or P filter.

Skin Protection: Rubber gloves and lab coat, apron or coveralls.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Mobile red liquid with slight solvent odour.

Boiling Point (°C): 100 approx

Melting Point (°C): No data

Specific Gravity: 1.04

Flashpoint (°C): > 61

Flammability Limits (%): LEL - Not Applicable; UEL - Not Applicable

Solubility in Water (g/L): Complete

pH (1%) 13.6

% Volatiles by volume @ 21°C: > 90 (as water)

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Potassium oxide at very high temperatures.

Hazardous Polymerization: Will not occur.

Incompatibilities: Acids.

Conditions to Avoid: Incompatibles.

SECTION 11 – TOXICOLOGICAL INFORMATION

No data for the product. The following data is for the ingredients.

Potassium Hydroxide: Oral rat LD50: 273 mg/kg; Investigated as a mutagen. Skin Irritation Data (STD Draize, 50 mg/24 H): Human, Severe; Rabbit, Severe. Eye Irritation Data (Rabbit, non-std test, 1 mg/24 H, rinse): Moderate. Not an NTP carcinogen. IARC category: none.

2-Butoxyethanol: Oral rat LD50: 470 mg/kg; Inhalation rat LC50: 450ppm/4H; Skin rabbit LD50: 220 mg/kg; investigated as a tumorigen, mutagen, reproductive effector. Reproductive Toxicity: Has shown teratogenic effects in laboratory animals.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Fate: No information found.

Environmental Toxicity: Potassium Hydroxide: TLm: 80 ppm/Mosquito fish/ 24 hr. / Fresh water.

2-Butoxyethanol: Environmental Toxicity: The LC50/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life.

