

MATERIAL HEALTH & SAFETY DATA SHEET

FLAMMABILITY **REACTIVITY** **HEALTH** **PERSONAL PROTECTION**
1 2 1 X
(Key: > = Greater than; < = Less than)

SECTION 1 - MATERIAL IDENTIFICATION & USE

Material Name: PURGE TANK CLEANSER **Code:** 228

Supplier: Captain PHAB Ltd.

Address: 613 Neal Drive
Peterborough, Ontario.
K9J 6X7

Emergency Telephone #: 705 748-0436

Chemical Name: **Molecular Weight:** 314 g/mole

Chemical Family: Oxidizer **Trade Name/Synonyms:**

Chemical Formula: **Material Use:** Cleaning/bleaching

SECTION 2 - HAZARDOUS INGREDIENTS OF MATERIAL

| <u>Hazardous Ingredients</u> | <u>Approximate Concentration %</u> | <u>C.A.S.N.A. or U.N. Numbers</u> | <u>"Exposure Limits"</u> | <u>LD₅₀ / LC₅₀ Specify Species & Route</u> |
|--------------------------------|------------------------------------|-----------------------------------|--------------------------|--|
| Sodium Carbonate Peroxyhydrate | >90 | C.A.S. 15630-89-4 | n/a | Oral (LD50) Acute 1900 to 3000 mg/kg (rat) |
| Inert Ingredients | <10 | | | |

SECTION 3 - PHYSICAL DATA FOR MATERIAL

Physical State: solid **Specific Gravity:** n/a **Odour Threshold(ppm):** n/a **Odour & Appearance:** Odorless - white

Vapour Pressure (mm/Hg): n/a **Vapour Density (Air=1):** n/a **Evaporation Rate:** n/a **Boiling Point (°C):** n/a **Freezing Point (°C):** n/a

Solubility in Water(20°C): partially **% Volatile (by volume):** n/a **pH: 1% soln=**10.0 **Coefficient of water/oil distribution:** n/a

SECTION 4 - FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability: Yes. **Conditions:** Slightly in presence of open flames/sparks.

Means of Extinction: Flood with water, water spray or fog. DO NOT USE dry chemicals, CO₂ or Halon.

Special Procedures: Avoid contact with all combustible materials. Store in dry areas.

Flash point(°C) & Method: n/a **Upper explosion limit(% by volume):** n/a **Lower explosion limit (% by volume):** n/a

Auto Ignition Temperature(°C):n/a **TDG Flammability Classification:** 1 **Hazardous Combustion Products:** CO; CO₂; Metallic Oxides

Chemical Sensitivity to Impact:n/a **Rate of Burning:** n/a **Explosion Power:** Slight risk on mechanical impact

Sensitivity to Static Discharge: Slight risk

SECTION 5 - REACTIVITY DATA

Chemical Stability: Yes **Conditions:**

Incompatibility to other substances: Yes

Substances: Highly reactive with reducing agents and acids. Reactive with organic materials, metals & moisture.

Reactivity and under what conditions: Can be dangerous when contacting organic materials -- rapid decomposition and generation of heat.

Hazardous Decomposition Products: CO; CO₂; Metallic; Oxides

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SECTION 6 - TOXICOLOGICAL PROPERTIES OF PRODUCT

Route of Entry: Skin Contact: ..X..... Skin Absorption:..... Eye Contact: X
Inhalation Acute:.....X..... Inhalation Chronic:..... Ingestion: X

Effects of Acute Exposure to Product: EYES: Very hazardous. Causes redness, watering, itching,.
SKIN: Prolonged exposure may cause burns and ulcerations.
INHALATION: Possible respiratory irritation.
INGESTION: Harmful if swallowed.

Effects of Chronic Exposure to Product: Repeat or prolonged exposure not known to aggravate medical condition.

LD₅₀ of Product (Specify Species & Route): Sensitization to Product:

LC₅₀ of Product (Specify Species): Exposure limits of Product:

Irritancy of Product: Synergistic materials:

Carcinogenicity: n/a..... Reproductive effects: n/a Teralogenicity:n/a.... Mutagenicity:n/a

SECTION 7 - PREVENTIVE MEASURES

Personal Protective Equipment:

Gloves: Any kind Respiratory: Dust respirator Eye: Goggles Footwear: n/a
Clothing: Apron/Lab coat.....Other: Safety shower and eye bath.

Engineering Controls: Local exhaust desirable. Electrical/mechanical equipment spark proof.

Leak & Spill Procedure: Minor spills -- Flush to sewer.

Waste Disposal: In accordance with Provincial & Federal regulations. Put solid in a self-contained package before putting in waste disposal.

Handling Procedures & Equipment: n/a

Storage Requirements: In cool, dry area away from combustibles and sources of static or sparks.

Special Shipping Information: Oxidizing material --- UN2467 Pg.111

SECTION 8 - FIRST AID MEASURES

Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing and launder before reuse.

Eyes: Flush with water, lifting upper and lower lids occasionally, then get medical attention.

Inhalation: If breathing is affected, remove individual to fresh air. If breathing is difficult give oxygen. If breathing stops, give artificial respiration.
Keep person warm, get medical attention immediately. DO NOT GIVE STIMULANTS.

Ingestion: Drink 2-4 glass of water or milk. Seek IMMEDIATE medical attention.

General advice:

SECTION 9 - PREPARATION DATE OF M.S.D.S.

Additional information/Comments: WHMIS -- Class C (Oxidizing material) Class D-2B - other toxic effects

Sources Used: Raw materials suppliers' MSDS's.

Prepared by: Abe Kelly. Phone #: 705-748-0436 Date: January 1, 2006. Revision Date: December 1, 2006
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