

Section I. Product Identification and Uses

		<b>HMIS (HFRP)</b>	
		<b>Health Hazard</b>	3
		<b>Fire Hazard</b>	0
		<b>Reactivity</b>	0
		<b>Personal Protection</b>	b
<b>Common / Trade name</b>	S 22 Clnr Descaler Brightener	<b>TDG</b>	Class 8
<b>WHMIS</b>	D1A, D2B, E	<b>PIN</b>	UN 1805 PHOSPHORIC ACID, LIQUID
<b>Code</b>	1473	<b>PG</b>	III
<b>Material uses</b>	Industrial applications: Cleanser, descaler, brightner.		

Section II. Hazardous Ingredients

Name	CAS #	% by weight	TLV/PEL	LC50/LD50
2-Butoxyethanol	111-76-2	10 - 30	Not available.	ORAL (LD50): Acute: 1480 mg/kg [Rat.]. 1230 mg/kg [Mouse]. 320 mg/kg [Rabbit]. DERMAL (LD50): Acute: 400 mg/kg [Rabbit]. VAPOR (LC50): Acute: 450 ppm 4 hour(s) [Rat]. 927 ppm 4 hour(s) [Mouse].
Phosphoric Acid	7664-38-2	10-30	Not available.	ORAL (LD50): Acute: 1530 mg/kg [Rat.]. DERMAL (LD50): Acute: 2740 mg/kg [Rabbit].
Nonyl phenol ethoxylate	9016-45-9	3 - 7	Not available.	Not available.

Section III. First Aid Measures

<b>Eye contact</b>	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. DO NOT use an eye ointment. Seek medical attention.
<b>Skin contact</b>	Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention.
<b>Inhalation</b>	Allow the victim to rest in a well ventilated area. Seek medical attention if discomfort persists.
<b>Ingestion</b>	DO NOT induce vomiting. Have conscious person drink several glasses of water. Seek immediate medical attention.

Section IV. Physical Data

<b>Physical state and appearance</b>	Liquid. (Clear.)	<b>Colour</b>	Colorless.
<b>pH (1% soln/water)</b>	Not available.	<b>Odour</b>	Butyl.
<b>pH (concentrate)</b>	Not available.	<b>Volatility</b>	80% (v/v).
<b>Boiling point</b>	100°C (212°F)	<b>Vapour density</b>	Weighted average: 1.6 (Air = 1)
<b>Specific gravity</b>	1.070-1.085 (Water = 1)	<b>Vapour pressure</b>	Weighted average: 54.9 mm of Hg (@ 20°C)
<b>Solubility</b>	Easily soluble in cold water, hot water, methanol. Soluble in diethyl ether. Very slightly soluble in n-octanol.		

Section V. Fire and Explosion Data

<b>The product is</b>	Non-flammable.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Flash points</b>	Not applicable.
<b>Degradation products</b>	Carbon oxides (CO, CO2) phosphates
<b>Extinguishing media</b>	Use DRY chemicals, CO2, water spray or foam.

Section VI. Reactivity data

<b>Stability</b>	The product is stable.
<b>Decomp. products</b>	See fire degradation products.
<b>Reactivity</b>	Extremely reactive or incompatible with alkalis. Slightly reactive to reactive with oxidizing agents, organic materials, acids and reducing agents.

Section VII. Toxicological properties

<b>Route of entry</b>	Ingestion. Skin contact. Eye contact. Inhalation.
<b>Toxicity for animals</b>	Acute oral toxicity (LD50): 1600 mg/kg (Rat) (Calculated value). Acute dermal toxicity (LD50): 2740 mg/kg (Rabbit.) (Phosphoric acid).
<b>Acute effects</b>	Dangerous in case of skin contact (corrosive, irritant, permeator), of ingestion, of eye contact (corrosive, irritant). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns.

**Chronic effects** Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation, respiratory tract irritation. **CARCINOGENIC EFFECTS:** None. **TETRATOGENIC EFFECTS:** None. **MUTAGENIC EFFECTIONS:** None. **REPRODUCTIVE EFFECTS:** None. Repeated or prolonged exposure to the substance can produce liver damage.

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#### Section VIII. Preventive measure

**Waste disposal** Dispose of material according to regional, provincial and federal regulations.

**Storage** Store in a dry, cool and well ventilated area.

**Precautions** Keep container dry. DO NOT ingest. Avoid contact with skin and eyes. Wear suitable protective clothing. Keep away from incompatibles. Keep out of reach of children. Do not breathe gas/fumes/ vapor/spray.

**Spill and leak** Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

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#### Section IX. Personal protective equipment

**Gloves** Gloves (impervious)

**Respiratory** In case of insufficient ventilation, wear suitable respiratory equipment.

**Eyes** Splash goggles.

**Other** Face shield, full suit, boots:are recommended under exceptional circumstances such as fire, spill or for prolonged contactwith bulk quantites.

**Eng. controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

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#### Section X. Preparation and other Information

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To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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#### Annex A. Legend

**HMIS** Hazardous Materials Identification System

**WHMIS** WHMIS Workplace Hazardous Materials Information System

**TDG** Transport Dangerous Goods

**PIN** Product Identification Number

**PG** Packaging Group

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