

# MATERIAL SAFETY DATA SHEET

## KLINGON



### SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: Klingon  
GENERAL/GENERIC NAME:  
PRODUCT USE: Safety Bowl Cleaner  
EFFECTIVE DATE: October 6, 2011  
VENDOR NAME AND ADDRESS: Alpine Specialty Chemicals Ltd..  
24 Ronson Drive, Unit 16  
Etobicoke, Ontario M9W 1B4  
613-996-6666  
24 HOUR EMERGENCY NO.

### SECTION 2 – COMPOSITION / INFORMATION INGREDIENTS

INGREDIENT	CAS.NO	%W/W	TLV	LC50/LD50
Hydrochloric acid	7647-01-0	1 - 5	1562 ppm/4hr(Rat)	900mg/kg ( Rabbit)
Phosphoric Acid	7664-38-2	10 – 30	ND	1530mg/kg(Rat)
Fatty alcohol ethoxylate	9002-92-0	1 – 5	ND	ND

### SECTION 3 – HAZARDS IDENTIFICATION

#### Route of Entry:

**Skin Contact:** Causes irritation.

**Eye Contact:** Causes transient irritation.

**Inhalation:** Mist may cause irritation of the respiratory tract.

**Ingestion:** May cause irritation to digestive tract.

**Effects of Acute Exposure:** (see section 11 for Toxicological information).

### SECTION 4 – FIRST AID

**Eyes:** Flush with running water for at least 15 minutes while holding eyelids open. Get medical attention. Completely decontaminate clothing, shoes and leather goods before reuse or discard.

**Skin Contact:** Immediately flush with running water for a minimum of 15 minutes. Call a physician if irritation develops.

**Inhalation:** If inhaled, remove victim to fresh air. If symptoms persist, call a physician.

**Ingestion:** **Do not induce vomiting.** Rinse mouth with water and then drink one glass of water. Seek immediate medical attention. Never give anything by mouth if victim is unconscious or rapidly losing consciousness or is convulsing.

### SECTION 5 – FIRE FIGHTING MEASURES

**Flammability:** ND **Flash Point deg. (C, TCC):** ND **LEL:** ND **UEL:** ND

**Hazardous Combustion Products:** Oxides of carbon **Means of Extinction:** Treat for surrounding material.

**Special Fire Hazards:** Not known.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Leak/Spill:** Leaking product may be transferred to clean plastic containers. Contain spills, absorb onto inert material.

### SECTION 7 – HANDLING AND STORAGE

**Storage Requirements:** Keep from freezing. Keep containers closed when not in use.

### SECTION 8 – EXPOSURE CONTROLS

**Personal Protective Equipment:** Wear rubber gloves, chemical goggles if risk of contact.

**Engineering Controls:** General ventilation is adequate.

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### SECTION 9 – PHYSICAL PROPERTIES

**Boiling Point:** Approx 105°C  
**Vapour Pressure (mmHg):** ND  
**Vapour Density (air = 1):** ND  
**Percent Volatile (Wt%):** NA  
**Physical State:** Liquid  
**Odour:** Wintergreen  
**Appearance:** Opaque Liquid

**Specific Gravity (water = 1):** 1.1  
**Freezing Point(°C):** 0°C  
**Evaporation Rate(BuAc=1):** NA  
**pH:** <1  
**Solubility in Water:** Complete

### SECTION 10 – STABILITY AND REACTIVITY

**Conditions for Chemical Instability:** Stable  
**Hazardous Decomposition Products:** None  
**Incompatible Materials:** Extremely reactive or incompatible with metals, alkalis, halogenated compounds. Slightly Reactive with moisture.

### SECTION 11 – TOXICOLOGICAL INFORMATION

**Route of Entry:** Eye, Skin, Inhalation, Ingestion.

Very dangerous in case of skin contact (irritant, permeator), of eye contact (irritant), of inhalation. Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. This product may irritate eyes and skin upon contact. Inflammation of the eye is characterized by redness, watering and itching. Skin inflammation is characterized by itching, scaling, reddening.

**Effects of Acute Exposure:** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Irritancy:** Irritant

**Carcinogenicity:** Not by IARC conclusions. **Synergistic Materials:** None

**Teratogenicity, Mutagenicity, Reproductive Effects:** Not Established.

### SECTION 12 – ECOLOGICAL CONSIDERATION

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

### SECTION 13 – DISPOSAL CONSIDERATIONS

**Waste Disposal:** In accordance with federal, provincial or local government requirements.

### SECTION 14 – TRANSPORT INFORMATION

**TDG Classification:** Corrosive Liquid, Acidic, Inorganic NOS ( PHOSPHORIC ACID SOLUTION )  
Class 8 UN 3264 PG III

### SECTION 15 – REGULATORY INFORMATION

**WHMIS Classification:** D2B,E

### SECTION 16 – OTHER INFORMATION

Prepared by: Lab Personnel

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