

# CHEM INTERNATIONAL

## **MATERIAL SAFETY DATA SHEET**

**EMERGENCY #: CANUTEC (613) 996-6666**

### PRODUCT IDENTIFICATION AND PREPARATION INFORMATION

**PRODUCT NAME:** C.I. Stalume **EFFECTIVE DATE:** January 15, 2009  
**WHMIS CLASS:** E; DIA  
**T.D.G. CLASSIFICATION:** Corrosive Liquids, Poisonous, N.O.S. (Hydrochloric Acid, Hydrofluoric Acid)  
**UN:** 2922 **CLASS:** 8 (6.1) (9.2) **PG:** II **CHEMICAL FAMILY:**  
**MATERIAL USE:** Aluminum Brightener and Cleaner

### HAZARDOUS INGREDIENTS

<b>INGREDIENTS</b>	<b>CAS #</b>	<b>Wt%</b>	<b>ACGTH-TLV</b>	<b>LC50(rat)</b>	<b>LD50</b>
Hydrochloric Acid	7647-01-0	10-30	5 ppm	3124 1hr.	Oral(rabbit)900mg/kg (100% HCL)
Phosphoric Acid	7664-38-2	5-10			Oral(rat)1530mg/kg (100% active)
Hydrofluoric Acid	7664-39-3	5-10	3 ppm	275ppm	

### PHYSICAL DATA

**BOILING POINT(°C):** N/AV **COEF. OF WATER/OIL DIST.:**  
**VAPOUR PRESSURE (mm Hg):** N/AV **SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 1.128 @ 20°C  
**VAPOUR DENSITY (Air=1):** N/AV **PERCENT VOLATILE (by vol.):**  
**SOLUBILITY IN WATER:** 100% **EVAPORATION RATE (H<sub>2</sub>O=1):** N/AV  
**PHYSICAL STATE:** Liquid **ODOUR THRESHOLD:**  
**pH (as supplied):** <1 @ 20°C **FREEZING POINT(°C):** N/AV  
**APPEARANCE AND ODOUR:** Clear colourless liquid with pungent, irritating odour.

### FIRE AND EXPLOSION DATA

**FLAMMABILITY:**  
**FLASH POINT (Deg C method):** N/A  
**UEL:** N/A  
**LEL:** N/A  
**HAZARDOUS COMBUSTION PRODUCTS:** Thermal decomposition emits toxic fumes.  
**MEANS OF EXTINCTION:** Water fog.  
**SPECIAL FIRE HAZARDS:** Use full protective clothing  
**AUTO IGNITION TEMP.:**

### REACTIVITY DATA

**CONDITIONS FOR CHEMICAL INSTABILITY:** Stable  
**INCOMPATIBILITY:** Oxidizing material, bases, reactive materials  
**HAZARDOUS DECOMPOSITION PRODUCTS:** At flame temperatures, will emit toxic phosphorus oxide fumes  
**REACTIVITY:**

### FIRST AID

**EYE:** Flush with plenty of water for at least 15 min. If irritation persists, get immediate medical attention.  
**SKIN:** Wash off with water. If irritation persists, get medical attention.  
**INHALATION:** Remove from exposure. If breathing is difficult, or discomfort persists, get medical attention.  
**INGESTION:** Do not induce vomiting. Give large quantities of water, milk, egg whites, or milk of magnesia. Get immediate medical attention. Refer to treatment for hydrofluoric acid. Never give anything by mouth to an unconscious person.

## TOXICOLOGICAL PROPERTIES

**ROUTE OF ENTRY:** Eyes, skin contact, inhalation, ingestion

**EFFECTS OF ACUTE EXPOSURE:**

**EYE:** Severe irritant, corrosive. Permanent visual damage may occur.

**SKIN:** Severe irritant. Corrosive to tissue.

**INHALATION:** Severe irritation of respiratory tract. pulmonary inflammation, congestion, Fumes can be very corrosive to tissue.

**INGESTION:** Corrosion of mucous membranes, esophagus, stomach; nausea, vomiting, diarrhea, circulatory collapse and death may occur.

**EFFECTS OF CHRONIC EXPOSURE:**

**SKIN:** N/AV

**IRRITANCY:** N/AV

**RESPIRATORY TRACT SENSITIZATION:** No known significant effects.

**CARCINOGENICITY:** No known significant effects.

**REPRODUCTIVE TOXIN:** No known significant effects.

**TERATOGENICITY:** No known significant effects.

**MUTAGENICITY:** No known significant effects.

**SYNERGISTIC MATERIALS:** No known significant effects.

**EXPOSURE LIMITS:** N/AV

## PREVENTATIVE MEASURES

**GLOVES:** Rubber gloves

**EYE PROTECTION:** Chemical Workers goggles, or face shield.

**RESPIRATORY PROTECTION:** In severe exposure, use self-contained breathing apparatus.

**OTHER PROTECTIVE EQUIPMENT:** Coveralls should be worn.

**ENGINEERING CONTROLS:** Use in well ventilated area.

**LEAK AND SPILL PROCEDURE:** Dike and salvage, or neutralize. Soda ash, and lime are neutralizing agents.

**WASTE DISPOSAL:** If material can't be salvaged, should be neutralized, and discharged into a treatment system in accordance with all federal, provincial, and local regulations.

**STORAGE REQUIREMENTS:** Store in a cool, dry, well ventilated area in closed container away from heat sources, metals, and oxidizers.

**STORAGE REQUIREMENTS & HANDLING PROCEDURES:** Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. KEEP OUT OF REACH OF CHILDREN. Keep container tightly closed. Store in a cool, dry area.

N/AP= NOT APPLICABLE · N/E=NOT ESTABLISHED · N/D=NOT DETERMINED · N/AV=NOT AVAILABLE  
 <=LESS THAN - >=MORE THAN

## HMIS HAZARD RATING INFORMATION

**FIRE**

**REACTIVITY**

**HEALTH**

**PERSONAL PROTECTION**

0 – Minimal, 1- Slight, 2 – Moderate, 3 – Serious, 4 – Extreme.

DISCLAIMER: Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases, data is not available and is so stated. Since conditions of actual product use are beyond the control of the supplier, it is assumed that the user of this material has been fully trained according to the mandatory requirements of WHIMIS. No warranty, expressed or implied is made, and supplier will not be liable for any losses, injuries, or consequential damage that may result from the use or reliance on any information contained in this form.

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