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## MATERIAL SAFETY DATA SHEET



# ALINOX

### Heavy duty acid cleaner

#### HAZARD RATING

FIRE HAZARD: ----- MINIMAL  
HEALTH HAZARD: ----- SERIOUS  
REACTIVITY: ----- MODERATE

#### PERSONAL PROTECTION



### I REGULATORY CLASSIFICATIONS

WHMIS  
TRANSPORT

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PHOSPHORIC ACID, LIQUID  
Class 8, UN 1805, P.G. III

### II HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous ingredient	Toxicity	# CAS	%
Phosphoric acid	LD <sub>50</sub> = 500 mg/kg (oral/rat)	7664-38-2	10-20
Hydrofluoric acid	LC <sub>50</sub> = 1276 ppm 1 hre (oral/rat)	7664-39-3	1-5
Sodium olefin sulfonate	LD <sub>50</sub> = 1850 mg/kg (oral/rat)	68349-57-6	1-5
Glycol ether	LD <sub>50</sub> = 5135 mg/kg (oral/rat)	34590-94-8	1-5

### III PHYSICAL DATA

pH (1%)	~1.0	Boiling point	N.AV.
Form	Clear liquid	Freezing point	N.AV.
Vapour density	N.AP.	Specific gravity	~1.12
Solubility in water	Complete	Evaporation rate	N.AP.
Vapour pressure	N.AP.	% Volatiles	~70

### IV FIRE AND EXPLOSION HAZARD

Flammability	No	Flash point	N.AP.
Upper and lower explosion limits	N.AP.		
Hazardous combustion products	Acid vapours at elevated temperatures. Firemen must wear full respiratory and protection. Use water spray to cool down containers exposed to fire. Eliminate all ignition sources. Flammable hydrogen may be generated if the acid comes in contact with some metals and because vapours generate dangerous products at elevated temperatures. Use water spray, dry chemical, foam or carbon dioxide.		
Means of extinction			
Special procedures	N.AP.		

### V REACTIVITY DATA

Chemical stability	Yes
Incompatibility to other substances	Yes Reducing agents, alkalis combustible and organic materials, and metals such as zinc.

Reactivity N.AP.  
Hazardous decomposition products This material may decompose at high temperatures to form chlorine gas.

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## **VI TOXICOLOGICAL PROPERTIES**

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### **Effects of acute exposure to material**

**EYE:** ----- Corrosive causing burns and irreversible damage.

**SKIN:** ----- Corrosive, especially on prolonged contact. May cause burns. Deep ulcers and staining of skin (yellow to brown) will occur.

**INGESTION:** ----- Corrosive, severe internal irritation and damage can result.

**INHALATION:** ----- Vapours and mists are extremely corrosive to the nose, throat and mucous membranes. Bronchitis, pulmonary oedema, and chemical pneumonia may occur. Irritation, coughing, chest pain, and difficulty in breathing may occur with brief exposure, while prolonged exposure may result in more severe irritation and tissue damage.

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## **VII PREVENTIVE MEASURES IN CASE OF LEAKS OR SPILLS**

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### **Leaks and spills procedures**

Stop leaks. Clean up spills immediately. Contain large spills and remove using vacuum truck. Soak up small spills with absorbent material and place in labelled waste container for disposal. Wear adequate protective clothing and equipment.

### **Waste disposal**

Landfill or incinerate in accordance with local, provincial and federal regulations.

### **Handling procedures and equipment**

Face shield or goggles and rubber gloves.

### **Storage requirements**

Keep containers closed when not in use.

### **Special shipping information**

N.AP.

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## **VIII PERSONAL PROTECTION**

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**Eye protection:** ----- Wear goggles

**Gloves:** ----- Wear rubber gloves

**Ventilation:** ----- Adequate local exhaust ventilation.

**Others measures:** ----- Vapour respirator, full suit, rubber boots.

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## **IX FIRST AID**

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**EYE:** ----- Immediately flush eyes with abundant water for at least 20 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Get medical attention immediately.

**SKIN:** ----- Wash immediately with plenty of water. Remove contaminated clothing and footwear. Wash clothing before reuse. Discard footwear that has been contaminated on the inner surface. Get medical attention.

**INGESTION:** ----- If swallowed, **DO NOT INDUCE VOMITING**. Give large quantities of water followed by several glasses of milk if available. If vomiting occurs spontaneously, keep airway open. Get medical attention. Never give anything by mouth to an unconscious person.

**INHALATION:** ----- Remove to fresh air.

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## **X PREPARATION INFORMATION**

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Prepared by: Technical Services

The information contained in this literature is believed to be accurate and is offered in good faith for the benefit of the customer. The company however, can not assume any liability or risk in the use of its chemical product since the conditions of use are beyond our control.