

Material Safety Data Sheet



Section 1. Product and company identification

Product name : **ALUMINET**

Product description : Deoxidizer for aluminum.

Supplier/Manufacturer : **KEMPRO SERVICES**
134 BOUL. Ste-Rose East,
Laval (Québec) Canada,
H7H 1N8
Tel.: (800) 299-0548

In case of emergency : **CANUTEC: (613) 996-6666 (collect)**

Section 2. Hazards identification

Physical State : Liquid (transparent liquid)

Signal word : **DANGER!**
CAUSES EYE BURNS. CAUSES IRRITATION TO SKIN.
HARMFUL IF SWALLOWED.

Section 3. Composition and information on ingredients

Name	CAS number	% by weight
Ortho-phosphoric acid	7664-38-2	5 - 10
Hydrofluoric acid	7664-39-3	3 - 6

Section 4. First aid measures

Eye contact : Rinse immediately with lukewarm water. Remove contact lenses (contact lenses) and continue flushing for at least 15 minutes, occasionally lifting the upper and lower eyelids. Consult a doctor immediately.

Skin contact : Immediately flush contaminated skin with plenty of water while removing contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Consult a doctor immediately. Wash clothing and shoes before reuse.

Inhalation : Move exposed person to fresh air. In the absence of breathing, trained personnel should administer artificial respiration or oxygen. Consult a physician immediately.

Ingestion : If the person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a doctor immediately.

Section 5. Fire-fighting measures

Flammability of the product : No known risk of fire or explosion.

Flash point : Not available.

Extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Special exposure hazards : In the presence of fire, promptly isolate the scene by removing all persons located near the scene of the accident. Take no action involving any personal risk or without suitable training. Move containers from fire area if without risk. Cool containers exposed to flames with water spray.

Special protective equipment : It is imperative that firefighters wear appropriate protective equipment and a self contained breathing apparatus with a full facepiece operated in positive pressure mode.

ALUMINET

Section 6. Accidental release measures

Personal precautions	: Take no action involving any personal risk or without suitable training. Evacuate the area. Do not touch or walk through spilled material. Ensure adequate ventilation. Put on appropriate personal protective equipment.
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up	: Stop leak if there is no risk. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate container for disposal.

Section 7. Handling and storage

Handling	: Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or aerosols. Keep out of the reach of children. Use only in a well ventilated area. Wear appropriate respirator. Keep away from alkalis. Handle with care. Avoid splashing.
Storage	: Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area away from incompatible substances. Separate from the following substances: Alkali, reactive metals, aluminium, lead, zinc, magnesium, bases, oxidizing agents, carbonate, peroxide, nitrate, chlorate, calcium carbures, cyanides, fluorides, phosphides, aldehydes, amines, alcohol. Keep container tightly closed when not in use. Do not store in unlabeled containers.

Section 8. Exposure controls/personal protection

Technical measures	: Use only in a well ventilated area. If user operations cause vapor, aerosol or mist, use process enclosures, local exhaust ventilation at the source, or other engineering controls to keep worker exposure to the contaminants suspended in the air below the recommended or statutory limits.
Eyes	: Splash goggles.
Hands	: Wear chemical resistant protective gloves.
Respiratory tracts	: Wear appropriate respirator.
Other	: Wear appropriate protective clothing to eliminate any risk of skin contact.

The information contained in this document applies to the concentrated product as sold. At dilution rate recommended, the risks inherent in this product are greatly reduced. Preventive measures can be adapted according to the judgment of the employer based on experience and / or level of exposure of workers.

Consult local authorities for values of exposure considered acceptable.

Section 9. Physical and chemical properties

Physical state	: Clear liquid.
Color	: Pink.
Odor	: Acid.
pH	: < 3
Viscosity	: Not available.
Boiling / condensation point	: Not available.
Melting / freezing point	: Not available.
Relative density	: 1.0 - 1.1
Solubility	: Easily soluble in cold and hot water.

Section 10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: No specific data. Avoid freezing and excessive heat.
Materials to avoid	: Reactive or incompatible with the following materials: Alkali, reactive metals, aluminium, lead, zinc, magnesium, bases, oxidizing agents, carbonate, peroxide, nitrate, chlorate, calcium carbures, cyanides, fluorides, phosphides, aldehydes, amines, alcohol.
Hazardous decomposition products	: Oxides of phosphorus.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.

ALUMINET

Section 11. Toxicological information

Potential acute health effects

Eyes	: Corrosive to eyes.
Skin	: Corrosive to skin.
Inhalation	: May cause irritation and burns to the respiratory tract. The inhalation of droplets suspended in the air or aerosols may cause irritation of the respiratory tract.
Ingestion	: May cause burns and permanent damage to mouth, throat and stomach. Mortal risk if swallowed.

Potential chronic health effects

Carcinogenic effects	: No known significant effects or critical hazards.
Mutagenic effects	: No known significant effects or critical hazards.
Teratogenic effects	: No known significant effects or critical hazards.
Reproductive effects	: No known significant effects or critical hazards.
Sensitization	: No known significant effects or critical hazards.

Toxicity data

Ingredient name

Ingredient name	Test	Species	Result
Phosphoric acid	DL50 Oral	Rat	1530 mg/kg
	DL50 Cutaneous	Rabbit	2740 mg/kg
Hydrofluoric acid	CL50	Mouse	171 ppm / 4 hrs
	CL50	Rat	638 ppm / 4 hrs
	CL50	Monkey	887 ppm / 4 hrs


Section 12. Ecological information

Ecotoxicity	: Not available.
Biodegradability	: Not available.
Aquatic ecotoxicity	: Not available.

Section 13. Disposal considerations

Waste disposal	: It is important to minimize or avoid the generation of waste wherever possible. Disposal of this product and solutions must always respect the provisions of the law on environmental protection and waste disposal and must remain in compliance with the requirements of local laws and regulations. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Diluted product used as recommended may be sent to the sewer. Consult local or regional authorities.
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Section 14. Transport information

Regulatory information	UN number	Propper shipping name	Classes	PG*	Label	Additional information
TDG Classification	UN1760	CORROSIVE LIQUID N.S.A. (phosphoric acid)	8	III		Remarks: Limited Quantity when 1L or less.

*PG: Packing Group

Section 15. Regulatory information

WHMIS (Canada) : **Class D2B: Toxic material**
Class E: Corrosive material

The product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16. Other information

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Prepared by: **Kempro Services Tel.: 800-299-0548**

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