

Safety Data Sheet

ALUMINIUM DEOXYDIZER

SECTION 1. IDENTIFICATION

Product Identifier	ALUMICLEAN
Other Identification	4400314-4400321
Recommended Use	Deoxidizer for aluminum.
Restrictions on Use	All other uses than those indicated on the product label and technical data sheet.
Supplier Identifier	TANSHAW SANITATION INC, 15 Clark St., Welland , ON, L3B 5W6, Tel.: (905) 732-0096 Fax: (905) 732-0686
Emergency Phone No.	Quebec Poison Control Centre (24 hours service) Quebec, (800) 463-5060 (no charge) All other places, (418) 656-8090, CANUTEC, (613) 996-6666 (collect)

SECTION 2. HAZARD IDENTIFICATION

Classification

Corrosive to metals - Category 1; Acute toxicity (Inhalation) - Category 4; Skin corrosion - Category 1; Serious eye damage - Category 1; Specific target organ toxicity (repeated exposure) - Category 1; Health Hazard Not Otherwise Classified (HHNOC) - Category 1

Label Elements



Signal Word:
Danger

Hazard Statement(s):

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

Prevention:

P234	Keep only in original packaging.
P260	Do not breathe dusts or mists.
P264	Wash hands and skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P271	Use only outdoors or in a well-ventilated area.
P270	Do not eat, drink or smoke when using this product.

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Response:

P390 Absorb spillage to prevent material damage.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P363 Wash contaminated clothing before reuse.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 Immediately call a POISON CENTRE or doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor.

P270 Do not eat, drink or smoke when using this product.

P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P330 Rinse mouth.

P331 Do NOT induce vomiting.

P314 Get medical advice or attention if you feel unwell.

Storage:

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

Not applicable.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Alcohols, C9-11, ethoxylated	68439-46-3	1-5	Information not available	Information not available
Hydrofluoric acid	7664-39-3	3-7	Information not available	Information not available
Phosphoric acid	7664-38-2	5-10	Information not available	Hydroxyde de sodium

Notes

Concentrations are expressed in % weight/weight.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Immediately call a Poison Centre or doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Remove the victim from the contaminated area and immediately wash the burned area with plenty of water for a minimum of 15 minutes. If available, the burned area should be immersed in a solution of 0.13% iced aqueous "zephiran chloride". A, 2.5% calcium gluconate gel may be continuously massaged into the burn area. Immediately call a Poison Centre or doctor.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Immediately call a Poison Centre or doctor.

Ingestion

Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious

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or convulsing. Do not induce vomiting. Immediately call a Poison Centre or doctor.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use extinguishing agent suitable for surrounding fire. CO2, extinguishing powder or water spray.

Specific Hazards Arising from the Product

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.

Special Protective Equipment and Precautions for Fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Take no action involving any personal risk or without suitable training. Do not touch or walk through spilled material. Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Remove or isolate incompatible materials as well as other hazardous materials.

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 and Materials for Containment and Cleaning Up

Stop the leak if this involves no risk. Spread containers from the area spill. Approach fumes in the same direction as the wind. Prevent entry into sewers, waterways, basements or areas confined. Eliminate spills at an effluent treatment plant or proceed as follows. Contain leaks and collect them with materials non-combustible absorbents such as sand, earth, vermiculite, earth diatoms. Then place them in a container for disposal in accordance with local regulations. Eliminate through a licensed specialty company. Contaminated absorbent material may pose the same hazard as the spilled material. Note: See Section 1 for emergency information and see Section 13 for waste disposal.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing the product. Keep out the reach of children. Use only in a well ventilated area. Wear appropriate respirator when ventilation is inadequate. Handle with care. Avoid splashing.

Conditions for Safe Storage

Store in an airtight container in a dry, well ventilated place with corrosion resistant cemented floor. Refer to SRST and NFC Standards for Storage. Keep away from combustible materials and acids. If the product is stored with other hazardous substances, refer to the NFC segregation table. Containers of corrosive substances must be kept closed, clearly marked with their contents, and handled with care. Additional information: This product attacks certain types of plastic, rubber or coating.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA

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Hydrofluoric acid		3 ppm	3 ppm	6 ppm		
Phosphoric acid	1 ppm		1 ppm			
Alcohols, C9-11, ethoxylated	Not established	Not established	Not established	Not established	Not established	Not established

Appropriate Engineering Controls

The purpose of the Health and Safety Act is to eliminate hazards at the source. Where engineering controls and changes in working procedures are not sufficient to reduce exposure to this substance, the use of personal protective equipment may be necessary. These protective equipment must comply with the regulations.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

Skin Protection

Wear skin protective equipment. The selection of such equipment depends on the nature of the work to be performed.

Respiratory Protection

Wear appropriate respirator when ventilation is inadequate.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Transparent pink liquid.
Odour	Specific to the ingredients
Odour Threshold	Not available
pH	> 13.0
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.0 - 1.1
Solubility	Very soluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Under normal conditions of storage and use, hazardous reactions will not occur.

Chemical Stability

Normally stable. However, it absorbs carbon dioxide and moisture from the air.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

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Conditions to Avoid

Keep away from freezing and excessive heat.

Incompatible Materials

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

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

This product is irritating and corrosive to the skin, eyes, respiratory tract and digestive tract. The severity of the symptoms may vary depending on the exposure conditions (duration of contact, concentration of the product, etc.).

Likely Routes of Exposure

Skin contact.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Hydrofluoric acid	653 ppm (male rat) (4-hour exposure) (gas)	Not available	Not available
Phosphoric acid		3500 mg/kg (rat)	2740 mg/kg (mouse)
Alcohols, C9-11, ethoxylated		1400 mg/kg (rat)	> 5000 mg/kg (rat)

LD 50 Oral ATEmix = Category 4

LD50 Dermal ATEmix = Without category

Skin Corrosion/Irritation

Causes severe skin burns.

Serious Eye Damage/Irritation

Causes serious eye damage.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Harmful if inhaled.

Skin Absorption

This product is not absorbed into the body, it exerts a local action that destroys the tissues.

Ingestion

May cause burns to mouth, throat and stomach.

Respiratory and/or Skin Sensitization

Not a respiratory sensitizer. Not a skin sensitizer.

Carcinogenicity

The data do not allow an adequate assessment of the carcinogenic effect.

Reproductive Toxicity

Development of Offspring

No data on teratogenic effects have been found.

Sexual Function and Fertility

No data on reproductive effects have been found.

Germ Cell Mutagenicity

Not known to be a mutagen.

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No known significant effects or critical hazards.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

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. Consult local or regional authorities.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1760	LIQUIDE CORROSIF N.S.A. (Phosphoric acid)	8	III

Special Precautions Please note: Limited quantity in 1L or less

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification

D2A - Very Toxic; E - Corrosive

SECTION 16. OTHER INFORMATION

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Disclaimer Notice to reader and user : The information contained in this document is accurate to the best of our knowledge. however, the above named supplier assumes any liability whatsoever with respect to the accuracy of the informatoin contained in this document. The finl determination ond suitability of any material or product is the sole responsibility of the user. All materials may pose risk and should be used whith caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist .

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