MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet complies with the Canadian Controlled Products Act

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NOTE: THE FOLLOWING INFORMATION PROVIDED IS FOR	R THE PRODUCT CONCENTRATE ONLY, NOT FOR USE-DILUTIONS**
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SECTION 1 - PRODUCT IDENTIFICATION						
PRODUCT IDENTIFIER:	ALUMAGLO					
PRODUCT USE:	Aluminum Brightener, Etchant and Cleaner					
SUPPLIER:	Velocity Chemicals Ltd. Unit #1, 9515- 190 th St., Surrey, B.C. V4N-3S1 Emergency Telephone: (604) 881-4700 Facsimile: (604) 881-4701	In case of transporation emergency or product spill, contact: In Canada- CANUTEC @ 613-996-6666 (24 hrs.)				

SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	% (W/W)	CAS NUMBER	LD50	LC50	EXPOSURE LIMITS
Phosphoric Acid	5-10	7664-38-2	4400 mg/kg (oral, rat) >3160 mg/kg (skin, rabbit)	Not Available	OSHA& ACGIH = 3mg/m3(STEL) OSHA& ACGIH = 1mg/m3(TWA) IDLH= 1000mg/m3
Hydrofluoric acid	5-10	7664-39-3	Not Available	1300ppm (inhal., rat -1hr.) 171ppm (inhal.,4hrs,mouse)	OSHA= 6ppm (STEL), 3ppm(TWA) ACGIH= 0.5ppm(TLV-TWA), 2ppm Ceiling IDLH= 30ppm

SECTION 3 - PHYSICAL DATA

Physical state: liquid Solubility: soluble

Odour and Appearance: clear, colorless and pungent

pH (100%) @ 20°C: < 1.0 Specific Gravity @ 20°C: 1.06

Odour Threshold (ppm): not determined

Vapour Density: not determined
Vapour Pressure: not determined
Evaporation Rate: not determined
Boiling Point (°C): not determined
Freezing Point (°C): not determined

Coefficient of water/oil distribution: Greater than 1

Alumaglo

SECTION 4 - FIRE AND EXPLOSION DATA

Flammability: No, product is non-flammable.

If yes, under what condition: Not applicable.

Means of Extinction: Dry chemical, alcohol foam, CO₂, water spray. The product is not flammable. Use extinguishing media

suitable for surrounding fires.

Special Fire Fighting Procedures: Wear NIOSH/OSHA approved, self contained breathing apparatus for fire fighting situations. Use water spray to cool all nearby fire exposed surfaces.

Explosion Data-

Sensitivity to impact: None

Sensitivity to static discharge: None

Flash Point (°C) and method: not applicable

Upper Flammable limit (% volume): not applicable

Lower Flammable limit (% volume): not applicable

Autoignition temperature (°C): not applicable

Usual Fire Hazards: Prolonged contact with sensitive metals like aluminum may form flammable hygrogen gas.

Hazardous combustion products: may liberate toxic, corrosive fumes of hydrogen fluoride.

SECTION 5 - REACTIVITY DATA

Chemical Stability: yes, stable under normal storage conditions

If no, under what conditions:

Incompatibility with other substances: yes

If so, under what conditions: strong alkalis, strong oxidizers and reducing agents, organic materials, glass, silica and sensitive metals like aluminum and its allovs.

Reactivity, and under what conditions: none known

Hazardous Decomposition Products: liberates toxic corrosive fumes of hygrogen fluoride upon thermal decomposition.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Primary route of entry: skin and eye contact, skin absorption and inhalation

Effects of Acute Exposure to Product: Product exposure can cause severe irritation, burns and damage to skin and eyes. Inhaling mist or vapors can cause immediate irritation, burns or discomfort to respiratory system. Harmful effects of hydrogen fluoride can be delayed through skin absorption.

Effects of Chronic Exposure to Product: Prolonged exposure will cause skin and eye damage, lung damage or respiratory disorder, pneumonia, pulmonary edema and shock. Absorption of fluorides may lead to fluorosis (bone and joint damage), ossification of ligaments and kidney damage.

Exposure Limits: see Section 2 under Hazardous Ingredients

Irritancy of Product: corrosive to skin, eyes and respiratory

system.

Sensitization: none known

Reproductive Toxicity: none known

Mutagenicity: none known

Carcinogenicity: none known

Teratogenicity: none known

Synergistic Products: none known

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SECTION 7 - PREVENTATIVE MEASURES

Respiratory Protection: Use a NIOSH/OSHA approved for acid mist/dust respirator if mists or vapors are present. Respirator may be a full-face acid gas/mist, a self contained breathing apparatus or a supplied air.

Gloves: butyl, rubber, neoprene or viton

Eye Protection: splash proof chemical goggles or face shield with full face respirator for splashing hazards.

Footwear: rubber boots
Clothing: long sleeves
Other: rubber apron

Engineering Controls: General ventilation for normal operating conditions or local exhaust for confined areas.

Leak and Spill Procedures: Wear protective equipment. Contain spill. Prevent runoff to drains or sewers. Recover material by pumping into a suitable waste container. Reuse material if possible, or otherwise neutralize with soda ash before disposal. Dispose in accordance with local regulations.

Waste Disposal: Dispose of in accordance with local environmental regulations.

Handling Procedures and Equipment: Use good hygiene practices. Do not get in eyes, on skin or clothing. Do not inhale mists or vapors. Use in a well ventilated area. Safety shower and eye wash station should be available in the immediate work area.

Storage Requirements: Store in a cool, dry place away from incompatibles. Do not mix with any other chemicals. Keep container closed when not in use. Keep from freezing and temperatures below 30°C.

Special Shipping Information:

WHMIS Classification: D1A, E

TDG Classification:

UN 2922, Corrosive Liquid, Toxic, N.O.S. (Phosphoric and Hydrofluoric acid mixture), Class 8(6.1), P.G. II

SECTION 8 - FIRST AID MEASURES

Inhalation:

Remove victim to fresh air, apply artificial respiration if necessary. Seek medical help.

Ingestion: Skin Contact:: Give large amounts of water if conscious. Do not induce vomiting. Get medical help immediately.

Flush immediately with cold water for 15 minues. Remove contaminated clothing. Get immediate medical aid. Treat burned area immediately with the following: apply a 2.5% calcium gluconate gel to burned area, or immerse burned area with iced cold solution of 0.2% aqueous benzethonium chloride or 0.13% benzalkonium chloride. If immersion is not possible, soak clean towels with above solution and apply to the burned area as compresses. Compresses should be changed every two minutes. Prepared solutions of the above or calcium gluconate gel should be available at all times, and solutions should be

changed annually.

Eye Contact:

Flush immediately with cold water for 15 minutes. Get immediate medical aid. However, if no immediate physician available, apply one to two drops of 0.5% tetracaine hydrochloride solution followed by a

second flush with water for another 15 minutes.

SECTION 9 - OTHER INFORMATION

REVISIONS: August 13, 2015 SUPERCEDES: February 20, 2013

Technical Department (Customer Service phone number: 604-881-4700)

PREPARED BY: DISCLAIMER:

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