

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT IDENTIFICATION

North American Pressure Wash Outlet
3427 Springdale Forrest Circle
Gainesville, GA 30506
Inquiry Phone: (678) 207-3487
Emergency Phone: (800) 535-5053
Prepared on 6/5/01

PRODUCT NAME: Aluminous
PRODUCT CODE: 16220

NFPA hazard codes: NFPA acute hazard rating:
0 = Least 3 = High Health: 3
1 = Slight 4 = Extreme Flammability: 0
2 = Moderate Reactivity: 2

SECTION 2 CHEMICAL COMPOSITION

Note: List all CERCLA hazardous substances at 1% or greater and CARCINOGENS at 0.1% or greater.

INGREDIENT (chemical name)	CAS#	% range	TLV / PEL	TWA	STEL / Ceiling Skin
Hydrofluoric Acid	7664-39-3	<10	3 ppm Air	3 ppm	6 ppm *
Nonylphenol ethoxylate	9016-45-9	<2	N/A	N/A	N/A
Phosphoric Acid	7664-38-2	<10	1mg/m ³	1mg/m ³	3mg/m ³ 2-

Note: Hydrofluoric and Phosphoric Acid are SARA TITLE III SECTION 313 materials subject to reporting by user within the manufacturing section. Hydrofluoric Acid are SARA TITLE III SECTION 302 reporting for inventories of this product exceeding 800 pounds.

Hydrofluoric, and Phosphoric Acid are SARA TITLE III SECTION 304 materials subject to reporting by user within the manufacturing section.

* OSHA requires skin protection to prevent or reduce exposure to this product.

SECTION 3 EMERGENCY & FIRST AID PROCEDURES

EMERGENCY FIRST AID: **EYES:** All exposures are considered severe. Immediately flush with large amounts of water for at least 15 minutes. Irrigate with 600 to 1000cc's of calcium gluconate 1% in saline solution while holding eyelids open, lifting upper and lower lids occasionally. Get immediate medical attention. **SKIN:** Affected area should be SHOWERED/DRENCHED with water for several minutes, remove all contaminated clothing. Do not remove goggles until decontamination has occurred. **NOTE THE TIME.** Initiate the applying of calcium gluconate 2.5% gel to the effected area. Alternative treatment, soak exposed area with an iced solution of AQUEOUS ZEPHIRAN. Get immediate medical attention. **INHALATION:** Initiate oxygen administration at a 2 to 6 L per minute flow and nebulize a solution of calcium gluconate at 2.5% concentration until medical help is reached. **INGESTION:** Do not induce vomiting. If victim is conscious, give orally high amounts of any calcium based antacid. Get immediate medical attention.

SECTION 4 PHYSIOLOGICAL EFFECTS

PRIMARY ROUTE(S) OF ENTRY INTO BODY: Eyes, Skin contact, Inhalation, Ingestion.

ACUTE EFFECTS: IMMEDIATE ACUTE HEALTH HAZARD: Eyes: Conjunctivitis, Corneal Burns, Blindness. Skin: Severe Burns with Ulceration. Inhalation: Cough, Spitting blood, Dyspnea, Shock, Muscle Spasms. Ingestion: Nausea, Vomiting, Abdominal Pain, Burns & Corrosion of Mouth, Esophagus, Stomach & Small Bowel.

CHRONIC EFFECTS: Death, Lung Damage, Pulmonary Adema, Severe Liver & Kidney Damage.

SECTION 5 OCCUPATION CONTROL PROCEDURES

VENTILATION: Local exhaust.

PERSONAL PROTECTION:

Respirator type: None required if concentration is below TLV/PEL. Otherwise use NIOSH approved CCROV or better respirator.

Gloves: Chemical resistant gloves required.

Eye Protection: Chemical splash goggles with face shield.

SECTION 6 PHYSICAL DATA

Appearance/odor: Clear / astringent

Physical state: Liquid

Boiling Point: 180° F

Freeze Point: 30° F

Specific Gravity: 1.08

pH concentrate: 0-1.0

1% pH dilution: 0-1.5

Solubility in water: Complete

Vapor pressure: 50 mmHg

Vapor density (air=1): >1

Evaporation rate (water = 1): <1

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SECTION 7 FIRE & EXPLOSION DATA

Flash point: None.

Method: T.C.C.

Flammable (explosive) limits in air: N/A.

Suitable extinguishing media: Water / foam.

Hazardous combustion bi-products: Heat, fluorine gas and hydrogen fluoride fumes.

Recommended fire fighting procedures: Firefighters should wear waterproof protective clothing and self-contained positive ventilation respiratory protection to prevent exposure to toxic and corrosive fumes and mist.

Unusual fire & explosive hazards: Corrosive hydrofluoric acid fumes (hydrogen gas) may be present.

SECTION 8 REACTIVITY DATA

Stability: Stable.

Conditions to avoid: Extreme heat.

Hazardous decomposition products: Heat, fluorine gas and hydrogen fluoride fumes.

Hazardous polymerization: Will not occur.

Incompatibility:

Material to avoid: Strong alkalines, glass, ceramic, oxidizable materials.

Corrosive action on material: Metals.

SECTION 9 STORAGE & HANDLING PRECAUTIONS

Storage: Store at temperatures below 120° F. Do not allow to freeze.

Handling: Wear proper gloves, boots, eye and face protection when handling.

Precautionary labeling: Corrosive, Toxic

SECTION 10 ENVIRONMENTAL INFORMATION

Spill or leak procedures:

Small spill/leak: Neutralize with sodium carbonate or sodium bicarbonate. Collect solution in containers for disposal. Do not flush to sewer or discharge to natural waterways as this product may be toxic to aquatic organisms.

Large spill/leak: Neutralize with sodium carbonate or sodium bicarbonate. Collect solution in containers for disposal. Do not flush to sewer or discharge to natural waterways as this product may be toxic to aquatic organisms.

Spill reportable quantity: 1000 pounds or more.

Waste disposal method: Consign to waste facility approved by federal, state, and local regulations. Do not flush to sewer or discharge to natural waterways as this product may be toxic to aquatic organisms.

RCRA or appropriate waste classification: U-134 for Hydrofluoric Acid.

Procedures for handling empty containers: Triple rinse.

Environmental toxicity data: Surfactants are biodegradable.

Other regulatory controls:

Is material classified under the CLEAN WATER ACT (USA) or appropriate water regulations as:

Toxic pollutant? Yes

Hazardous substance (SECTION 302)? Yes.

If yes, reportable quantity (R.Q.). 1000 pounds.

SECTION 11 PRODUCT IDENTIFICATION

Indicate country/regulatory agency which specifies requirements: USA-DOT/ IMO

Proper shipping name: Corrosive Liquids, Toxic, n.o.s.(containing Hydrofluoric, Phosphoric Acids)

Hazard class: 8 (6.1)

Identification number: UN2922

Packing Group: II

Labels required: Product, Corrosive, Toxic

PRODUCT NAME: Aluminous

PRODUCT CODE: 16220

Revised: 07/07/2005