Aluma Wash

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:	Aluma Wash
SDS Number:	6329, 10329
Revision Date:	3/7/2016
Product Description:	Cleaning Concentrate with Metal Inhibitor
Product Use:	For all Aluminum Building Surfaces
Supplier Details:	Winsol Laboratories Inc 1417 NW 51st St Seattle, WA 98107
Emergency:	INFOTRAC 1-800-535-5053 (North America); 1-352-323-3500 (International)
Phone:	206-782-5500
Web:	www.winsol.com

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Acute toxicity, 4 Oral
Environmental, Hazards to the aquatic environment - Acute, 3

GHS Label elements, including precautionary statements

GHS Signal Word: WARNING

GHS Hazard Pictograms:

GHS Hazard Statements:

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H302 - Harmful if swallowed
H402 - Harmful to aquatic life

GHS Precautionary Statements:

P102 - Keep out of reach of children.
P103 - Read label before use.
P260 - Do not breathe mist or spray.
P264 - Wash skin thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301 - IF SWALLOWED: May cause gastrointestinal irritation. Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
P302 - IF ON SKIN: Prolonged or repeated and confined exposure may cause skin irritation. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing and footwear before reuse.
P304 - IF INHALED: Remove to fresh air.
P305 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists consult medical personnel.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
5324-84-5	.5-2%	1-Octanesulfonic acid, sodium salt
68439-50-9	.5-1%	Alcohols, C12-14, ethoxylated
7320-34-5	.5-2%	Diphosphoric acid, tetrapotassium salt
34590-94-8	1-5%	Dipropylene glycol methyl ether
60-00-4	.5-2%	Ethylenediamine-tetraacetic acid
1310-58-3	.5-1%	Potassium hydroxide, solution
6834-92-0	.5-1%	Silicic acid (H2SiO3), disodium salt
1312-76-1	5-10%	Silicic acid, potassium salt

The exact percentage (or concentration) of ingredients has been withheld as a trade secret.

Composition Comments: Components and trace elements not listed are either non-hazardous or are below reportable limits.

4 FIRST AID MEASURES

Inhalation: Remove to fresh air.

Skin Contact: Prolonged or repeated and confined exposure may cause skin irritation. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing and footwear before reuse.

Eye Contact: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists consult medical personnel.

Ingestion: May cause gastrointestinal irritation. Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

5 FIRE FIGHTING MEASURES

Flammability: NON-FLAMMABLE
Flash Point: N/A
LEL: N/A
UEL: N/A

EXTINGUISHING MEDIA: Water
UNUSUAL FIRE AND EXPLOSION HAZARDS: None
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus with a full face piece operated in a pressure demand or other positive pressure mode.

6 ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb liquid on paper, vermiculite, floor absorbent or other absorbent material and transfer to labeled containers.
LARGE SPILL: Stop spill at source, dike area of spill to prevent spreading, pump liquid into salvage tank. Remaining liquid may be taken up on sand, clay, floor absorbent or other absorbent material and shoveled into labeled containers.
WASTE DISPOSAL METHOD: Review Federal, Provincial and Local Government requirements prior to disposal.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Exercise care and caution. Store in cool dry place.
OTHER PRECAUTIONS: Containers of this material may be hazardous when emptied, since emptied containers retain product residues (vapor, liquid and/or solids), all hazard precautions given in the data sheet must be observed.

7 HANDLING AND STORAGE

Handling Precautions: Keep material out of reach of children.
Storage Requirements: Store in cool/dry area.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment:

RESPIRATORY PROTECTION: If TLV of the product or component is exceeded, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified condition.
Ventilation: Provide general or mechanical ventilation or local exhaust.
PROTECTIVE GLOVES: Use impermeable gloves to prevent skin contact. Use head caps, boots, chemical aprons when necessary.
EYE PROTECTION: Use safety eyewear designed to protect eyes against liquid splash and mists.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use protective clothing to prevent skin contact. Use head caps, boots, chemical aprons when necessary.
WORK/HYGIENIC PRACTICES: Eyewashes and safety showers in the workplace are recommended. Wash hands after using. Monitor exposure levels.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear		
Physical State:	Liquid	**Odor:**	Mild
Odor Threshold:	No data available	**Solubility:**	100% in water
Spec Grav./Density:	1.02	**Freezing/Melting Pt.:**	No data available
Viscosity:	No data available	**Flash Point:**	No data available
Boiling Point:	No data available	**Vapor Density:**	No data available
Flammability:	None	**Auto-Ignition Temp:**	No data available
Partition Coefficient:	No data available	**UFL/LFL:**	No data available
Vapor Pressure:	No data available		
pH:	No data available		
Evap. Rate:	No data available		
Decomp Temp:	No data available		

10 STABILITY AND REACTIVITY

Reactivity: Product is stable under normal conditions.
Chemical Stability: Product is stable under normal conditions.
Conditions to Avoid: N/A
Materials to Avoid: Strong Oxidizing Agents, Acids.
Hazardous Decomposition: Not known.
Hazardous Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

1-Octanesulfonic acid, sodium salt (5324-84-5) :
Information on toxicological effects
Acute toxicity:
Oral LD50 no data available
Inhalation LC50
Dermal LD50
Other information on acute toxicity
Skin corrosion/irritation: no data available
Serious eye damage/eye irritation: no data available
Respiratory or skin sensitization: no data available
Germ cell mutagenicity: no data available

Carcinogenicity:
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, OSHA.

Reproductive toxicity: no data available
Teratogenicity: no data available
Specific target organ toxicity - single exposure (Globally Harmonized System): no data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available
Aspiration hazard: no data available
Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.
Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Synergistic effects: no data available
Additional Information:
RTECS: Not available

Diphosphoric acid, tetrapotassium salt (7320-34-5) :
Information on toxicological effects
Acute toxicity:
Oral LD50 Inhalation LC50 Dermal LD50 LD50 Dermal - rabbit - > 4,640 mg/kg Remarks: Prolonged skin contact may cause skin irritation and/or dermatitis.
Other information on acute toxicity no data available
Skin corrosion/irritation: no data available
Serious eye damage/eye irritation: no data available
Respiratory or skin sensitization: no data available
Germ cell mutagenicity: no data available

Carcinogenicity:
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, OSHA.

Reproductive toxicity: no data available
Teratogenicity: no data available
Specific target organ toxicity - single exposure (Globally Harmonized System): no data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available
Aspiration hazard: no data available
Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.
Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Synergistic effects: no data available
Additional Information:
RTECS: JL6735000

Dipropylene glycol methyl ether (34590-94-8) :
Information on toxicological effects
Acute toxicity:
Oral LD50 LD50 Oral - rat - 5,152 mg/kg
Inhalation LC50 no data available
Dermal LD50
Other information on acute toxicity
Skin corrosion/irritation: Serious eye damage/eye irritation:
Eyes - rabbit - Mild eye irritation - 24 h
Respiratory or skin sensitization: no data available
Germ cell mutagenicity: no data available

Carcinogenicity:
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, OSHA.

Reproductive toxicity: no data available
Teratogenicity: no data available
Specific target organ toxicity - single exposure (Globally Harmonized System): no data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available
Aspiration hazard: no data available
Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.
Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Synergistic effects: no data available
Additional Information:
RTECS: JM1575000

Ethylenediamine-tetraacetic acid (60-00-4) :
Information on toxicological effects
Acute toxicity:
LD50 Oral - rat - male and female - 4,500 mg/kg
Inhalation: no data available
Dermal: no data available
Skin corrosion/irritation: Skin - rabbit Result: No skin irritation
Serious eye damage/eye irritation: Eyes - rabbit Result: Eye irritation
Respiratory or skin sensitisation: Maximisation Test - rabbit Result: Does not cause skin sensitisation.
Germ cell mutagenicity: no data available

Carcinogenicity:
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, OSHA.

Reproductive toxicity: no data available
Specific target organ toxicity - single exposure: no data available
Specific target organ toxicity - repeated exposure: no data available
Aspiration hazard: no data available
Additional Information:
RTECS: AH4025000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potassium hydroxide, solution (1310-58-3) :
Information on toxicological effects
Acute toxicity:
LD50 Oral - rat - 333 mg/kg
Inhalation: no data available
Dermal: no data available
Skin corrosion/irritation: Skin - rabbit Result: Severe skin irritation - 24 h
Serious eye damage/eye irritation: Eyes - rabbit Result: Corrosive to eyes (OECD Test Guideline 405)
Respiratory or skin sensitisation: no data available
Germ cell mutagenicity: no data available

Carcinogenicity:
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, OSHA.

Reproductive toxicity: no data available
Specific target organ toxicity - single exposure: no data available
Specific target organ toxicity - repeated exposure: no data available
Aspiration hazard: no data available
Additional Information:
RTECS: TT2100000

Silicic acid (H2SiO3), disodium salt (6834-92-0) :
Information on toxicological effects
Acute toxicity:
LD50 Oral - rat - 1,153 mg/kg
Inhalation: no data available
Dermal: no data available
Skin corrosion/irritation: Skin - rabbit Result: Severe skin irritation - 24 h
Serious eye damage/eye irritation: no data available
Respiratory or skin sensitisation: no data available
Germ cell mutagenicity: no data available

Carcinogenicity:
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, OSHA.

Reproductive toxicity: no data available
Reproductive toxicity - rat - Oral:
Effects on Newborn: Stillbirth. Effects on Newborn: Live birth index (# fetuses per litter; measured after birth). Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4). no data available
Specific target organ toxicity - single exposure: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure: no data available
Aspiration hazard: no data available
Additional Information:
RTECS: VV9275000
burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

Silicic acid (H2SiO3), disodium salt (6834-92-0) : no data available
Diphosphoric acid, tetrapotassium salt (7320-34-5) : no data available
Alcohols, C12-14, ethoxylated (68439-50-9) : no data available
Silicic acid, potassium salt (1312-76-1) : no data available

12 ECOLOGICAL INFORMATION

1-Octanesulfonic acid, sodium salt (5324-84-5) :
Information on ecological effects
Toxicity:
Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 3,200 mg/l - 24 h.
and other aquatic invertebrates
Persistence and degradability: no data available
Bioaccumulative potential: no data available
Mobility in soil: no data available
PBT and vPvB assessment: no data available
Other adverse effects: no data available

Dipropylene glycol methyl ether (34590-94-8) :
Information on ecological effects
Toxicity:
Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - > 10,000 mg/l - 96 h.
Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 1,919 mg/l - 48 h.
and other aquatic invertebrates
Persistence and degradability: Biodegradability
Bioaccumulative potential: no data available
Mobility in soil: no data available
PBT and vPvB assessment: no data available
Other adverse effects: no data available

Ethylenediamine-tetraacetic acid (60-00-4) :
Information on ecological effects
Toxicity:
Toxicity to fish static test LC50 - Lepomis macrochirus (Bluegill sunfish) - 41 mg/l - 96 h.
Toxicity to daphnia and static test EC50 - Daphnia magna (Water flea) - 625 mg/l - 48 h.
other aquatic invertebrates
Persistence and degradability: Bioaccumulative potential:
Bioaccumulation Lepomis macrochirus - 28 d - 80 µg/l
Bioconcentration factor (BCF): 1.8
Mobility in soil: no data available
Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects: May be harmful to aquatic organisms due to the shift of the pH. Avoid release to the environment.

Potassium hydroxide, solution (1310-58-3) :
Information on ecological effects
Toxicity:
Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) - 80 mg/l - 96 h.
Persistence and degradability: The methods for determining the biological degradability are not applicable to inorganic substances.
Bioaccumulative potential: no data available
Mobility in soil: no data available
Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

Silicic acid (H2SiO3), disodium salt (6834-92-0) : no data available
Diphosphoric acid, tetrapotassium salt (7320-34-5) : no data available
Alcohols, C12-14, ethoxylated (68439-50-9) : no data available
Silicic acid, potassium salt (1312-76-1) : no data available

13 DISPOSAL CONSIDERATIONS

Waste Disposal Method: Review Federal, Provincial and Local Government requirements prior to disposal.

14 TRANSPORT INFORMATION

Non-hazardous.

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

1-Octanesulfonic acid, sodium salt (5324-84-5) TSCA
Alcohols, C12-14, ethoxylated (68439-50-9) TSCA
Diphosphoric acid, tetrapotassium salt (7320-34-5) TSCA
Dipropylene glycol methyl ether (34590-94-8) MASS, OSHAWAC, PA, TSCA, TXAIR
RQ(5000LBS), Ethylenediamine-tetraacetic acid (60-00-4) CERCLA, CSWHS, HAP, MASS, PA, TSCA
RQ(1000LBS), Potassium hydroxide, solution (1310-58-3) CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR
Silicic acid (H2SiO3), disodium salt (6834-92-0) TSCA
Silicic acid, potassium salt (1312-76-1) TSCA

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Regulatory CODE Descriptions
-------------------------------------------------------------
RQ = Reportable Quantity
TSCA = Toxic Substances Control Act
MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TXAIR = TX Air Contaminants with Health Effects Screening Level
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
HAP = Hazardous Air Pollutants
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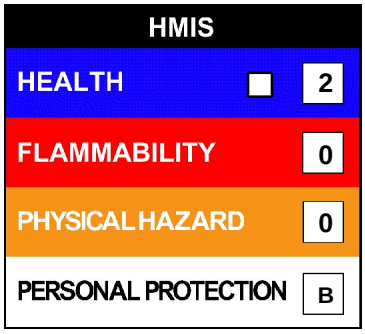
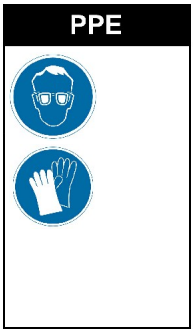
16 OTHER INFORMATION

HMIS III: Health = 2, Fire = 0, Physical Hazard = 0
HMIS PPE: B - Safety Glasses, Gloves





HMIS Index: 1-slight , 2-moderate, 3-serious, 4-severe

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Sections 11 and 12 are based on composition of 100% raw materials.

ISSUE DATE: 05/19/15
REVISION DATE: 03/07/16
REVISIONS: section 9