

SAFETY DATA SHEET

SECTION I: IDENTIFICATION

Product: AlumaWhite 135

Description: Aluminum Whitener

Company Identification: Solutions² LLC
1621 N. 1st St.
Winterset, IA 50273
Phone: 515-493-1153
Website: www.Solutions2llc.com



Company Emergency Telephone Number: CHEMTREC 1-800-424-9300

SECTION II: HAZARD(S) IDENTIFICATION

OSHA/HSC Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS CLASSIFICATION Substance/Mixture

CORROSIVE TO METALS - Category 1

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

SKIN CORROSION/IRRITATION - Category 1

ACUTE TOXICITY (ORAL) - Category 4

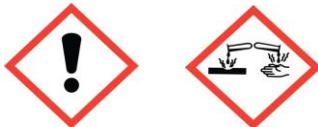
ACUTE TOXICITY (DERMAL) - Category 4

ACUTE TOXICITY (INHALATION) - Category 4

GHS LABEL ELEMENTS

Signal Word: Danger

Hazard Pictograms:



Hazard Statements: Harmful if swallowed.
Causes severe skin burns and serious eye damage.
May be corrosive to metals.
Harmful in contact with skin.
Harmful if inhaled.

Precautionary Statements:

Prevention: Avoid breathing mist, vapors, or spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, protective clothing, eye protection, face protection.

Response: Absorb spillage to prevent material-damage.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
IF ON SKIN (or hair): Wash with plenty of water. Take off immediately any contaminated clothing. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage: Store in corrosion resistant container or container with inner liner. Store in a well ventilated area. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents/container in accordance with local/national regulations.

Hazards Not Classified: Not Known

Additional Information: Not applicable.

SECTION III: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight - %
Urea Monohydrochloride	506-89-8	6-9%
Alcohols, C9-11, ethoxylated	68439-46-3	2-4%
Acid Mixture	Proprietary	Proprietary

Specific chemical identity and/or exact percentage of mixture has been withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

SECTION IV: FIRST AID MEASURES

- Eye Contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove contacts lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing or if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin Contact:** Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion:** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in a recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt and waistband.

Most Important Symptoms/Effects, Acute and Delayed Potention Acute Health Effects

- Eye Contact:** Causes serious eye damage.
- Skin Contact:** Harmful in contact with skin. Causes severe skin burns.
- Inhalation:** Harmful if inhaled.
- Ingestion:** Harmful if swallowed.

Over Exposure Signs/Symptoms

- Eye Contact:** Adverse symptoms may include: Pain, irritation, watering, or redness of the eyes.
- Skin Contact:** Harmful in contact with skin. Adverse symptoms may include the following: Pain, irritation, redness.
- Inhalation:** Harmful if inhaled.
- Ingestion:** Harmful if swallowed.

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

- Note to Physicians:** In case of inhalation of decomposition in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific Treatments:** No specific treatment.
- Protection of First Aiders** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

SECTION V: FIRE-FIGHTING MEASURES

- Extinguishing Media:** Use an extinguishing agent suitable for the surrounding fire.
- Specific Hazards from the Chemical:** At temperatures above 140 degrees F acid action on most metals may release hydrogen, highly flammable and explosive gas.
- Hazardous Decomposition Products:** The following may include, carbon dioxide, carbon monoxide, nitrogen oxides,

hydrochloric acid.

Special Protective actions: No special measures required.

Protective Equipment / Precautions for Firefighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Personal Precautions , Protective Equipment and Emergency Procedures

For non-emergency Personnel: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental Precautions: Do not allow spills to enter drains or waterways. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using the toilet. Promptly remove any soiled clothing and wash thoroughly before reuse.

Methods for Cleaning Up: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: See section 1 for emergency contact information and section 13 for waste disposal.

SECTION VII: HANDLING AND STORAGE

Precautions for Safe Handling:

Protective Measures: Avoid breathing mist, vapors, or spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

Conditions for Safe Storage: Store in accordance with local regulations. Store in container protected from direct sunlight in a dry, cool and well-vented area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Incompatible Materials: Reactive or incompatible with the following materials: oxidizing materials. This material may be extremely hazardous in contact with chlorates and nitrates. Contact with hypochlorites (eg. Chlorine bleach, sulfides or cyanides) will liberate toxic gases. Contact with alkaline materials will generate heat.

SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: None established.

Engineering Controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental Exposure Controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection: Safety eye wear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dust. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical splash goggles.

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different pending glove manufacturer.

Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Skin Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

General Hygiene: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using restroom and at the end of every work period. Appropriate techniques should be used to remove contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations are close to the workstation location.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Color	Liquid / Clear Pink
Odor	Mild
pH	1.0
Melting Point / Freezing Point	No information available
Boiling Point / Boiling Range	> 212° F
Flash Point	> 93.3° C (> 212° F)
Evaporation Rate	No information available
Flammability (Solid, gas)	No information available
Upper Flammability Limit	No information available
Lower Flammability Limit	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	1.14
Solubility(ies)	Easily soluble in water
Partition Coefficient	No information available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

SECTION X: STABILITY AND REACTIVITY

Reactivity: Hazardous polymerization will not occur.

Chemical Stability: Stable under normal circumstances.

Possibility of Hazardous Reaction: No data available.

Conditions to Avoid: Avoid heat and direct sunlight. Self contained breathing apparatus should be used to prevent inhalation of gases. Water fog will be the most effective for controlling vapors.

Incompatible Materials: Reactive or incompatible with the following materials: oxidizing materials. This material may be extremely hazardous in contact with chlorates and nitrates. Contact with hypochlorites (eg. Chlorine bleach, sulfides or cyanides) will liberate toxic gases. Contact with alkaline materials will generate heat.

Hazardous Decomposition: Highly corrosive to many materials. Hydrogen gas formed on contact with most metals. HCl vapors emitted when heated. Chlorine gas may be formed by electrolysis or oxidation.

SECTION XI: TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

Component Acute Toxicity:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Urea Monohydrochloride	1120.9 mg/kg (Rat)		
Alcohols, C9-11, ethoxylated	1400 mg/kg (Rat)		

Irritation/Corrosion: Causes severe skin burns and eye damage

Sensitization: There is no data available.

Carcinogenicity: No components are listed as carcinogens by IARC, ACGIH, OSHA, or NTP.

Specific Target Organ Toxicity (single exposure): There is no data available.

Specific Target Organ Toxicity (repeated exposure): There is no data available.

Aspiration Hazard: There is no data available.

Routes of Exposure: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects:

Eye Contact: Causes serious eye damage.

Inhalation: Harmful if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin Contact: Harmful in contact with skin. Causes severe skin burns.

Ingestion: Harmful if swallowed.

Symptoms:

Eye Contact: Adverse symptoms may include the following: Pain or irritation; Watering; Redness.

Skin Contact: Causes severe skin burns. Harmful in contact with skin. Adverse symptoms may include the following: pain or irritation; redness

Inhalation: Harmful if inhaled.

Ingestion: Harmful if swallowed.

IMMEDIATE, DELAYED, CHRONIC EFFECTS

Short Term Exposure

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards.

Long Term Exposure

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards.

Potential Chronic Health Effects

General: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates: There is no data available.

SECTION XII: ECOLOGICAL INFORMATION

Ecotoxicity: There is no data available.

Persistence and Degradability: There is no data available.

Bioaccumulative Potential: There is no data available.

Mobility in Soil: There is no data available.

Other adverse effects: There is no data available.

SECTION XIII: DISPOSAL CONSIDERATIONS

Disposal of Waste: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

SECTION XIV: TRANSPORT INFORMATION

DOT

UN/ID #: UN1760

Proper Shipping Name: Corrosive liquid, N.O.S. (acid mixture)

Hazard Class: 8

Packing Group: II

SECTION XV: REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory):

All chemical components in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPCRA 302 Extremely Hazardous: None listed

SARA 311/312 Hazard Categories

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

California Proposition 65: To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

SECTION XVI: OTHER INFORMATION

Issue Date: 01/24/20

HAZARD RATINGS:

Version #: 1

NFPA: Health: 2 Flammability: 0 Instability: 0
HMIS: Health: 2 Flammability: 0 Physical Hazards: 0

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