

# SAFETY DATA SHEET



## Section 1: PRODUCT AND COMPANY IDENTIFICATION

- 1.1. Product identifier**  
Product name ALBOND CL
- 1.2. Other means of identification**  
None
- 1.3. Recommended use of the chemical and restrictions on use:**  
Recommended Use Zincating solution
- 1.4. Details of the supplier of the safety data sheet**  
Address A Brite Company  
3217 Wood Drive  
Garland, TX 75041  
Phone number 1-888-8ABRITE  
Website www.abrite.com
- 1.5. Emergency phone number**  
Emergency telephone 1-800-424-9300 (CHEMTREC)

## Section 2: HAZARDS IDENTIFICATION

**2.1. Classification of the chemical in accordance with 29 CFR 1910 (OSHA HCS)**

Skin corrosive	Category 1
Serious eye damage	Category 1
Specific target organ toxicity, single exposure (inhalation, respiratory tract)	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

**2.2. Label Elements**



**Pictogram**

**Signal Word** Danger

**Hazard Statements**

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H371	May cause damage to organs if inhaled (respiratory tract)
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

**Precautionary statements**

Prevention

P260	Do not breathe dust, mist, or spray.
P264	Wash exposed skin and hands thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.

P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face protection.
 <u>Response</u>	
P301+P330+P331+ P310	If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor.
P303+P361+P353+P310	If on skin (or hair): Immediately remove all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor.
P363	Wash contaminated clothing before reuse.
P304+P340+P310	If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.
P305+P351+P338+P310	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
P309+P311	If exposed or if you feel unwell: call a poison center or doctor.
P321	Specific treatment (see section 4).
P391	Collect spillage. Hazardous to the aquatic environment.
 <u>Storage</u>	
P405	Store locked up.
 <u>Disposal</u>	
P501	Dispose of content/container in accordance with local, regional, and national regulations.

**2.3. Hazards not otherwise classified**  
None

**2.4. Ingredient(s) with unknown acute toxicity**  
None

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Chemical name and concentration/concentration ranges**  
The specific chemical identity of this product is being withheld as a trade secret in accordance with OSHA 29 CFR 1910.1200(i).

**3.2. Common name and synonyms**  
See 3.1

**3.3. CAS number and other unique identifiers**  
See 3.1

**3.4. Impurities/stabilizing additives**  
See 3.1

**Section 4: FIRST AID MEASURES**

**4.1. Description of first aid measures**  
**Inhalation** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a doctor immediately. If mists

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present, rescuer should wear mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**Skin contact**

Immediately flush skin with plenty of water for at least 30 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Chemical burns must be treated promptly by a doctor. Wash contaminated clothing and shoes before reuse.

**Eye contact**

Immediately rinse with water for 30 minutes, keeping eyelids open. Remove contact lenses, if present, after the first minute. Get medical attention immediately.

**Ingestion**

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Move person to fresh air and keep comfortable. If exposed person is conscious, give small quantities of water to drink. Consult a doctor immediately to treat chemical burns.

**4.2. Most important symptoms/effects, acute and delayed**

See symptoms and effects in sections 2.1, 2.2, and 4.1. Corrosive to eyes and skin. Concentrated solutions may destroy tissue on contact. May cause blindness. Ingestion may cause severe burns and complete perforation of mucous membranes to the mouth, throat, esophagus, and stomach. Mist or dust at high levels may cause irritation to the nose, throat, and lungs. May cause damage to the upper respiratory tract.

**4.3. Indication of immediate medical attention and special treatment, if necessary**

Treat symptoms.

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**Section 5: FIRE FIGHTING MEASURES**

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**5.1. Suitable/unsuitable extinguishing media**

This material is not combustible; however, if this material is involved in a fire, use extinguishing media appropriate to surrounding fire conditions (carbon dioxide, water spray, alcohol foam, dry chemical).

**5.2. Specific hazards arising from chemical**

This material is not combustible; however, liquid form in contact with water may generate sufficient heat to ignite combustible or flammable materials. Explosive hydrogen gas may be generated if product is in contact with white metals such as zinc, aluminum, tin, or alloys of these metals. Carbon oxides, potassium oxides, or zinc oxides may evolve if heated to decomposition. If heated or in a fire, a pressure increase will occur and the container may burst. Cool exposed containers with water spray after extinguishing fire. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer, or drain.

**5.3. Special protective equipment and precautions for fire-fighters**

Fire fighters should wear self-contained breathing apparatus and protective clothing.

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**Section 6: ACCIDENTAL RELEASE MEASURES**

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**6.1. Personal precautions, protective equipment, and emergency procedures**

Use personal protective equipment (gloves, eye/face protection) to prevent eye and skin contact. Avoid breathing mist or spray. Ensure adequate ventilation or wear respirator. Wash contaminated clothing before reuse. Prevent discharge into the environment. In case of large spill, keep unnecessary personnel away.

**6.2. Methods and materials for containment and cleaning up**

Prevent further leaks or spillage if safe to do so. For small spills, flush to treatment system with large amounts of water. For large spills, sweep or soak up with inert absorbent material into suitable containers for disposal. Keep out of fish bearing waters and the environment. To dispose of waste, dump to wastewater treatment system or dispose of via licensed waste contractor. Observe local, state, and federal regulations.

## Section 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**

Avoid contact with skin and eyes and avoid breathing mist or spray. Wear appropriate PPE including gloves and eye protection. Wear a respirator if ventilation is inadequate. Keep container closed when not in use. Wash hands thoroughly after handling. For industrial use only. Keep away from children.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep container tightly closed when not in use, and store in a dry and well-ventilated area. Avoid storage with incompatible materials including acids, flammable liquids, organic halogens, nitromethane or nitro compounds, and metals such as zinc, aluminum, tin, or alloys of these metals.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**

Contains the following substances with occupational exposure limit values:

*Sodium hydroxide* (< 30%), 1310-73-2: ACGIH TLV and NIOSH REL = 2 mg/m<sup>3</sup>

*Potassium hydroxide* (< 2%), 1310-58-3: ACGIH TLV and NIOSH REL = 2 mg/m<sup>3</sup>

*Zinc oxide* (< 5%), 1314-13-2: ACGIH TLV TWA = 2 mg/m<sup>3</sup>, STEL = 10 mg/m<sup>3</sup>; NIOSH REL TWA = 5 mg/m<sup>3</sup>; OSHA OEL TWA = 15 mg/m<sup>3</sup>

*Ferric chloride* (< 0.5%):as Fe, ACGIH TLV TWA and NIOSH REL = 1 mg/m<sup>3</sup>

**8.2. Appropriate engineering controls.**

Ensure ventilation is adequate. Keep containers tightly closed when not in use. Use good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday. Local exhaust may be necessary to keep substances below occupational exposure limits.

**8.3. Individual protection measures**

<b>Eye/face protection</b>	Wear tightly fitting safety goggles. Wear a face shield if splashing is likely to occur.
<b>Skin/body protection</b>	Handle with gloves. Use appropriate glove removal technique to avoid skin contact with product, and wash and dry hands after use.
<b>Respiratory protection</b>	Use adequate ventilation. Use NIOSH approved respiratory equipment for dust and mist.

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<b>General considerations</b>	Always wash hands before smoking/eating/drinking or using the toilet. Wash contaminated clothing and other PPE before storage or reuse. Eyewash fountains and safety showers must be easily accessible.
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**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Clear, straw to pale yellow liquid
<b>Odor</b>	Slight soapy and alcohol odor
<b>Odor threshold</b>	No applicable information is available
<b>pH</b>	~14
<b>Melting/freezing point</b>	No applicable information is available
<b>Boiling point/boiling range</b>	> 212 °F (> 100 °C)
<b>Flash point</b>	No applicable information is available
<b>Evaporation rate</b>	No applicable information is available
<b>Flammability (solid/gas)</b>	No applicable information is available
<b>Flammability limits</b>	No applicable information is available
<b>Vapor pressure</b>	No applicable information is available
<b>Vapor density</b>	No applicable information is available
<b>Relative density</b>	1.44
<b>Solubility(ies)</b>	Completely soluble in water
<b>Partition coefficient (n-octanol/water)</b>	No applicable information is available
<b>Auto-ignition temperature</b>	No applicable information is available
<b>Decomposition temp</b>	No applicable information is available
<b>Viscosity</b>	No applicable information is available

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**Section 10: STABILITY AND REACTIVITY**

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**10.1. Reactivity**

No applicable information is available

**10.2. Chemical stability**

Stable under normal conditions of storage and use.

**10.3. Possibility of hazardous reactions**

Hazardous polymerization does not occur. Possible reactions with acids, flammable liquids, organic halogens, nitromethane or nitro compounds. Liquid form in contact with water may generate sufficient heat to ignite combustible or flammable materials. Contact with white metals such as zinc, aluminum, tin, or alloys of these metals may generate explosive hydrogen gas.

**10.4. Conditions to avoid**

Avoid storage with incompatible materials. Avoid splashing or dropping of water or strong acids on product. Avoid spilling of product on white metals.

**10.5. Incompatible materials**

Acids and white metals such as zinc, aluminum, tin, or alloys of these metals. Flammable liquids, organic halogens, nitromethane or nitro compounds.

**10.6. Hazardous decomposition products**

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Hydrogen gas may be evolved if product comes into contact with white metals such as zinc, aluminum, tin, or alloys of these metals. If heated to decomposition, product may evolve carbon oxides, potassium oxides, or zinc oxides.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on the likely routes of exposure and symptoms

No adverse health effects are expected if the product is handled in accordance with the SDS and the product label. Symptoms may occur if the product is mishandled and overexposure occurs. Routes of exposure: skin, eyes, and inhalation.

<b>Inhalation</b>	May cause damage to organs following a single exposure if inhaled. Breathing in dust or mist may produce cause irritation to the nose, throat, and lungs. Symptoms may include burning sensation, cough, wheezing, shortness of breath, spasm, or inflammation of the respiratory tract.
<b>Ingestion</b>	Can cause severe burns and complete perforation of mucous membranes to the mouth, throat, esophagus, and stomach if swallowed.
<b>Skin</b>	Contact may result in severe skin burns. Corrosive to eyes and skin.
<b>Eye contact</b>	Contact may result in serious eye damage. Corrosive to eyes and skin. Direct contact with the eyes can cause irreversible damage, including blindness.

### 11.2. Numerical measures of toxicity

Oral ATE > 9000 mg/kg  
Dermal ATE > 2300 mg/kg  
Inhalation ATE > 60 mg/L

### 11.3. Carcinogenicity

This product does not contain any components that are listed as known or suspected carcinogens by NTP, IARC, or OSHA.

## Section 12: ECOLOGICAL INFORMATION

<b>12.1. <u>Ecotoxicity</u></b>	Avoid contaminating waterways. This material is very toxic to aquatic life with long lasting effects. Product is classified as acute and chronic aquatic toxicity by the additivity formula. No tests have been performed on this product, but available information on components is listed below: <i>Potassium hydroxide</i> : LC50 = 80 mg/L, 96 h, mosquito fish <i>Sodium hydroxide</i> : LC50 = 45.4 mg/L, 96 h, freshwater fish <i>Zinc oxide</i> : LC50 = 1.1 mg/L, 96 h, rainbow trout; EC 50 = 0.098 mg/L, 48 h, water flea <i>Tartaric acid</i> : EC50 = 93.31 mg/L, 48 h, water flea; EC50 = 51.4 mg/L, 72 h, algae
<b>12.2. <u>Persistence/degradability</u></b>	No applicable information is available
<b>12.3. <u>Bioaccumulative potential</u></b>	No applicable information is available

**12.4. Mobility in soil** No applicable information is available

**12.5. Other adverse effects** No applicable information is available

### Section 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods**

Dump to wastewater treatment system. Dispose of contaminated packaging and material wastes in accordance with all applicable federal, state, and local laws and regulations regarding health and pollution.

### Section 14: TRANSPORT INFORMATION

<b>UN number</b>	UN 3266
<b>UN proper shipping name</b>	Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide, Potassium hydroxide)
<b>Transport hazard class(es)</b>	8
<b>Packing group, if applicable</b>	II
<b>Environmental hazards</b>	Toxic to aquatic life
<b>Transport in bulk</b>	No applicable information is available
<b>Special precautions</b>	No applicable information is available

### Section 15: REGULATORY INFORMATION

**15.1. Regulatory information**

Product classified according to OSHA CFR 29 1910.1200. See section 2.

**TSCA**

Components found in TSCA inventory.

**SARA Title III Section 302**

No ingredients subject to reporting requirements

**SARA Title III Section 311/312**

Acute Health Hazard

**SARA Title III Section 313**

No ingredients subject to reporting requirements

**Massachusetts/Pennsylvania/New Jersey Right to Know Components:**

Sodium hydroxide, potassium hydroxide, zinc oxide, tartaric acid

**California Prop. 65 Components**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**RQ**

Sodium hydroxide = 1000 lb (454 kg), Potassium hydroxide = 1000 lb (454 kg)

### Section 16: OTHER INFORMATION

**NFPA/HMIS Hazard Codes (minimal = 0, slight = 1, moderate = 2, serious = 3, severe = 4)**

Health: 3/3

Fire: 0/0

Reactivity: 0/0

Special: NA

**Date Prepared**

07/13/2015

**Disclaimer**

To the best of our knowledge, the information contained herein is accurate. However, neither A Brite Company nor any of its employees or subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**End of Safety Data Sheet**