



# SAFETY DATA SHEET

Issue Date: 10-Jun-2010

Revision Date: 11-Mar-2015

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** ACE SUPER D

### Other means of identification

**SDS #** ASD

**UN/ID No** UN1814

**Other Information** Package type: 32oz., 1, 5, 55 gal.

### Recommended use of the chemical and restrictions on use

**Recommended Use** Cleaning and brightening aluminum finned cooling and heating coils.

**Restrictions on Use** For professional use only. Product is a concentrate and should be diluted prior to use.

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Atlantic Chemical & Equipment Company  
3471 Atlanta Industrial Parkway  
Suite 200  
Atlanta, GA 30331

#### **Emergency telephone number**

**Company Phone Number** 404-505-6626  
1-800-929-2436

**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

### Signal Word

**Danger**

### Hazard Statements

Harmful if swallowed  
Causes severe skin burns and eye damage



**Appearance** Clear orange liquid

**Physical State** Liquid

**Odor** Citrus

**Precautionary Statements – Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements – Response**

Immediately call a POISON CENTER or doctor/physician  
 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/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a POISON CENTER or doctor/physician  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Rinse mouth  
 Do NOT induce vomiting

**Precautionary Statements – Storage**

Store locked up  
 Keep containers tightly closed in a dry, cool and well-ventilated place

**Precautionary Statements – Disposal**

Dispose of in accordance with federal, state and local regulations

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other Information**

Harmful to aquatic life with long lasting effects  
 Harmful to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sodium silicate	1344-09-8	<30
Potassium hydroxide	1310-58-3	<25
Sodium xylenesulfonate	1300-72-7	<18

## 4. FIRST AID MEASURES

### First aid measures

<b>General Advice</b>	Provide this SDS to medical personnel for treatment.
<b>Inhalation</b>	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.
<b>Eye Contact</b>	Immediately flush with plenty of water for up to 15 minutes. Immediate medical attention is required.
<b>Ingestion</b>	Drink plenty of water. Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Seek medical attention immediately.
<b>Skin Contact</b>	Neutralize with very diluted vinegar solution, wash with soap and water, apply skin cream. For large burns - GET IMMEDIATE MEDICAL ATTENTION.

### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Inhalation may cause irritation to nasal passages. Severe burns to exposed skin. Nausea. Blindness may occur.
-----------------	---

### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically.
---------------------------	------------------------

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

### Specific hazards arising from the chemical

Avoid mixing with acids and soft metals.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Use personal protective equipment as required. Wash thoroughly after handling.
-----------------------------	--

### Methods and material for containment and cleaning up

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so. Neutralize with water and vinegar.
<b>Methods for cleaning up</b>	For small spills: wash to drain after product is neutralized. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite)

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash face, hands and any exposed skin thoroughly after handling. Avoid mixing with acids and soft metals. Use personal protection recommended in Section 8.

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

**Storage Conditions** Store locked up. Keep containers tightly closed in a cool, well-ventilated place.

**Packaging materials** Do not store in aluminum drums.

**Incompatible materials** Acids. Soft metals.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Controls** If vapors are detected, ventilate work area by opening windows and using exhaust fans. Always work with wind from behind.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** Use tight fitting, splash proof safety goggles. Contact lenses should not be worn when handling this material. Face Mask.

**Skin and Body Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear protective Neoprene™ gloves.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Citrus
<b>Appearance</b>	Clear orange liquid	<b>Odor threshold</b>	Not determined
<b>Color</b>	Light orange		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	13.0-14.0	
Melting point/freezing point	Not determined	
Flash point	Not determined	
Evaporation rate	Not determined	

---

Flammability (solid, gas)	Not determined
Flammability Limits in Air	Not determined
Upper flammability limits	Not determined
Lower flammability limits	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Specific gravity	1.135
Water solubility	Not determined
Solubility in other solvents	Not determined
Partition in other solvents	Not determined
Partition coefficient	Not determined
Autoignition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not determined
Oxidizing properties	Not determined

#### Other Information

### 10. STABILITY AND REACTIVITY

#### Reactivity

This product will warm slightly with the addition of water.

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

Product will react violently with the addition of incompatible materials.

#### Conditions to avoid

Incompatible materials. Keep out of reach of children.

#### Incompatible materials

Acids. Soft metals.

#### Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

##### Product Information

Inhalation	May cause irritation to the mucous membranes and upper respiratory tract.
Eye contact	Causes serious eye damage.
Skin Contact	Causes severe skin burns. May be harmful in contact with skin.
Ingestion	Harmful if swallowed.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-
Sodium Silicate 1344-09-8	= 1153 mg/kg ( Rat )	> 4640 mg/kg ( Rabbit )	-
Potassium hydroxide 1310-58-3	214 mg/kg ( Rat )	-	-
Sodium xylenesulfonate 1300-72-7	= 7200 mg/kg ( Rat )	-	-
NP 9	= 1310 mg/kg ( Rat )	= 2 mL/kg ( Rabbit )	-

**Information on physical, chemical and toxicological effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical measures of toxicity – Product**

Not determined

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1154 mg/kg  
ATEmix (dermal) 16841 mg/kg

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Harmful to aquatic life. Harmful to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Silicate 1344-09-8		301 - 478: 96 h <i>Lepomis macrochirus</i> mg/L LC50 3185: 96 h <i>Brachydanio rerio</i> mg/L LC50 semi-static		216: 96 h <i>Daphnia magna</i> mg/L EC50
Potassium hydroxide 1310-58-3		80: 96 h <i>Gambusia affinis</i> mg/L LC50 static		

**Persistence and degradability**

Not determined

**Bioaccumulation**

Not determined

**Mobility**

Not determined

Chemical Name	Partition coefficient
Potassium hydroxide 1310-58-3	0.83

**Other adverse effects** Not determined

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

##### **Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

##### **Contaminated packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	California Hazardous Waste Status
Potassium hydroxide 1310-58-3	Toxic Corrosive

### 14. TRANSPORT INFORMATION

#### DOT

**UN/ID No** UN1814  
**Proper shipping name** Potassium Hydroxide, Solution  
**Hazard Class** 8  
**Packing Group** II  
**Reportable Quantity (RQ)** 1000 lbs each (Sodium hydroxide, Potassium hydroxide)

#### IATA

**UN/ID No** UN1814  
**Proper shipping name** Potassium Hydroxide, Solution  
**Hazard Class** 8  
**Packing Group** II

#### IMDG

**UN/ID No** UN1814  
**Proper shipping name** Potassium Hydroxide, Solution  
**Hazard Class** 8  
**Packing Group** II

### 15. REGULATORY INFORMATION

#### International Inventories

Not determined

#### Legend:

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

#### U.S. Federal Regulations

**SARA 311/312 Hazard Categories**

Acute health hazard Yes  
 Chronic health hazard Yes  
 Fire hazard No  
 Sudden release of pressure hazard No  
 Reactive hazard No

Chemical Name	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Potassium hydroxide 1310-58-3	1000 lb			X
Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)	
Potassium hydroxide 1310-58-3	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ	

**U.S. State Regulations**

**California Prop 65**

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

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium hydroxide 1310-58-3	X	X	X

**U.S. EPA Label Information**

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	Not determined	Not determined	Not determined	Not determined
<b>HMIS</b>	<b>Health hazards</b>	<b>Flammability</b>	<b>Physical hazards</b>	<b>Personal protection</b>
	3	0	2	X

Issue Date: 10-Jun-2010  
 Revision Date: 11-Mar-2015  
 Revision Note: Corrections

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**