# SAFETY DATA SHEET



Issue Date: 01-Jun-2010 Revision Date: 03-Mar-2015 Version 1

### 1. IDENTIFICATION

**Product Identifier** 

Product Name ACE KLEAN HD

Other means of identification

SDS# HDC

UN/ID No UN3266

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

Recommended use of the chemical and restrictions on use

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

**Restrictions on Use** For professional use only.

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

### **Manufacturer Address**

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

**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 yellow liquid Physical State Liquid Odor slight glycol odor

### <u>Precautionary Statements - Prevention</u>

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

Rinse mouth

Do NOT induce vomiting

Immediately call a POISON CENTER or doctor/physician

# <u>Precautionary Statements - Storage</u>

Store locked up

Store in a well-ventilated place. Keep container tightly closed

### <u>Precautionary Statements - Disposal</u>

Dispose of in accordance with federal, state and local regulations

# Hazards not otherwise classified (HNOC)

May be harmful in contact with skin

### **Other Information**

Not Applicable

### 3. COMPOSTION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Potassium hydroxide	1310-58-3	<21
2-Butoxyethanol	111-76-2	<15
Tetrapotassium pyrophosphate	7320-34-5	<10
Sodium metasilicate pentahydrate	10213-79-3	<10

#### 4. FIRST AID MEASURES

First aid measures

**General Advice** Provide this SDS to medical personnel for treatment.

**Inhalation** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately.

Eye Contact Immediately flush with plenty of water for up to 15 minutes. Immediate medical attention

is required.

**Ingestion** 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.

Skin Contact 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

Symptoms Inhalation may cause irritation to nasal passages. Severe burns to exposed skin. May

cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Ingestion may cause

severe burns to mouth, throat or stomach.

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

**Note to physicians** 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

Not determined

#### 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. Wear impervious to strong alkaline protective clothing.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions**Use personal protective equipment as required. Wash thoroughly after handling.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so. Neutralize with water and vinegar.

Methods for cleaning up 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) and place in container for disposal according to local / national regulations

(see Section 13).

### 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. Do not eat, drink or smoke

when using this product.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Keep container tightly closed in a dry and well-ventilated place.

Incompatible materials Acids.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
1310-58-3			
2-Butoxyethanol	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup>	
111-76-2			TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>
		(vacated) TWA: 120 mg/m <sup>3</sup>	
		(vacated) S* S*	

### **Appropriate engineering controls**

Engineering Controls Ventilation must be adequate to maintain the ambient workplace atmosphere below the

exposure limit(s) outlined in the SDS.

# 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 suitable protective clothing and footwear appropriate for the risk of exposure.

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

Physical state Liquid

AppearanceClear yellow liquidOdorSlight glycol odorColorClear to yellowOdor thresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

13.0-14.0 Hq Not determined Melting point/freezing point 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 1.10-1.20 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 **Dvnamic viscosity** Not determined **Explosive properties** Not determined **Oxidizing properties** Not determined

### **Other Information**

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions

#### **Chemical stability**

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Product will react violently with the addition of incompatible materials.

**Hazardous polymerization** Hazardous polymerization does not occur.

### **Conditions to avoid**

Incompatible materials. Keep out of reach of children.

#### Incompatible materials

Acids.

### **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 severe 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)	-	-
Potassium hydroxide 1310-58-3	214 mg/kg (Rat)	-	-
2-Butoxyethanol 111-76-2	470 mg/kg (Rat)	220 mg/kg (Rabbit) 2270 mg/kg (Rat)	2.21 mg/L (Rat) 4 h 450 ppm (Rat) 4 h
Tetrapotassium pyrophosphate 7320-34-5	-	>4640 mg/kg (Rabbit)	-
Sodium metasilicate pentahydrate 10213-79-3	847 mg/kg	-	-

### 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** The table below indicates whether each agency has listed any ingredient as a

carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol 111-76-2	А3	Group 3		

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

### Numerical measures of toxicity - Product

Not determined

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

ATEmix (oral) 1115 mg/kg
ATEmix (dermal) 3135 mg/kg
ATEmix (inhalation-gas) 350000 mg/l
ATEmix (inhalation-dust/mist) 30.9 mg/l

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

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

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganis	Crustacea
Potassium hydroxide 1310-58-3		80: 96 h Gambusia affinis mg/L LC50 static		
2-Butoxyethanol 111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50		1698 - 1940: 24 h Daphnia magna mg/L EC50 >1000: 48 h Daphnia magna
Tetrapotassium pyrophosphate 7320-34-5		100: 96 h Oncorhynchus mykiss mg/L LC50		100: 48 h water flea mg/L EC50

# Persistence and degradability

Not determined

### **Bioaccumulation**

Not determined

### **Mobility**

Not determined

Chemical Name	Partition coefficient
Potassium hydroxide 1310-58-3	0.83
2-Butoxyethanol 111-76-2	0.81

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.

### 14. TRANSPORT INFORMATION

DOT

UN/ID No UN3266

Proper shipping name Corrosive liquid, Basic, Inorganic n.o.s (Potassium hydroxide, Disodium trioxosilicate)

Hazard Class 8
Packing Group II

Reportable Quantity (RQ) 1000 lbs (Potassium hydroxide)

**IATA** 

UN/ID No UN3266

Proper shipping name Corrosive liquid, Basic, Inorganic n.o.s (Potassium hydroxide, Disodium trioxosilicate)

Hazard Class 8
Packing Group II

<u>IMDG</u>

UN/ID No UN3266

Proper shipping name Corrosive liquid, Basic, Inorganic n.o.s (Potassium hydroxide, Disodium trioxosilicate)

Hazard Class 8
Packing Group | |

# 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**

Chemical Name	CAS No	. 5	SARA 313 - Threshold Values %
2-Butoxyethanol	111-76-2	<15	1.0

# SARA 311/312 Hazard Categories

Chemical Name	CWA - Reportable Quantities	CWA - Toxi	c Pollutants	CWA - Priority Po	llutants	CWA - Hazardous Substances
Potassium hydroxide 1310-58-3	1000 lbs					Х
Chemical Name	Hazardous Subst	ances RQs	CERC	LA/SARA RQ	Rej	oortable Quantity (RQ)
Potassium hydroxide 1310-58-3	1000 lb	S			R	Q 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
2-Butoxyethanol 111-76-2	X	Х	X
Sodium metasilicate pentahydrate 10213-79-3	Х		X

### **U.S. EPA Label Information**

### **16. OTHER INFORMATION**

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

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#### <u>Disclaimer</u>

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**