SAFETY DATA SHEET



Issue Date 01-Jun-2012 Revision Date 26-Feb-2015 Version 1

1. IDENTIFICATION

Product Identifier

Product Name ACE EVAP-KLEEN

Other means of identification

SDS# CCL

UN/ID No Not Regulated

Other Information Package type: 32oz., 1, 2.5, 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. 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

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

Signal word

Danger

Hazard statements

Causes skin burns and eye damage



Appearance Clear green Physical state Liquid Odor Bland

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling 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: 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

Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight
Sodium metasilicate pentahydrate	10213-79-3	<13
2-Butoxyenthanol	111-76-2	<18
Monoethanolamine	141-43-5	<12
EDTA	143-19-1	<9
Sodium hydroxide	1310-73-2	<7

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. Inhalation of

fumes or acid mist can cause irritation or corrosive burns to the upper respiratory system,

including nose, mouth and throat.

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

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. Wear impervious to strong alkaline protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautionsUse personal protective equipment as required. Wash thoroughly after handling.

Environmental precautions See Section 12 for additional ecological information.

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.

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
Sodium metasilicate pentahydrate 10213-79-3	-	-	-
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³
Monoethanolamine 141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m³ (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m³ (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m³	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m³ STEL: 6 ppm STEL: 15 mg/m³
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m³ (vacated) Ceiling: 2 mg/m³	IDLH: 10 mg/m³ Ceiling: 2 mg/m³

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 Wear goggles or chemical safety glasses.

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

Physical state Liquid

AppearanceClear greenOdorHerbal

ColorClear greenOdor thresholdNot determined

Property Values Remarks • Method

Not determined

pH 13.0

Melting point/freezing point Not determined Not determined Flash point Not determined Not determined Evaporation rate Not determined

Flammability (solid, gas)
Flammability Limits in Air

Upper flammability limits

Lower flammability limit

Not determined

Vapor pressureNot determinedVapor densityNot determined

Specific Gravity 1.062

Water solubility Not determined

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
Not determined
Not determined
Not determined
Not determined
Not determined
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

None under normal processing.

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.

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

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg(Rat)	-	-
Sodium metasilicate pentahydrate 10213-79-3	= 847 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
Monoethanolamine 141-43-5	= 1720 mg/kg (Rat)	= 1 mL/kg (Rabbit) = 1025 mg/kg (Rabbit)	-
Sodium hydroxide 1310-73-2	-	= 1350 mg/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.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol	A3	Group 3		
111-76-2				

Numerical measures of toxicity- Product

Not determined

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

ATEmix (oral) 5498 mg/kg
ATEmix (dermal) 5099 mg/kg
ATEmix (inhalation-gas) 663769 mg/l
ATEmix (inhalation-dust/mist) 26.1 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 microorganisms	Crustacea
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 mg/L EC50
Monoethanolamine 141-43-5	15: 72 h Desmodesmus subspicatus mg/L EC50	227: 96 h Pimephales promelas mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC50 static 300 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 114 - 196: 96 h Oncorhynchus mykiss mg/L LC50 static 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through		65: 48 h Daphnia magna mg/L EC50
Sodium hydroxide 1310-73-2		45.4: 96 h Oncorhynchus mykiss mg/L LC50 static		

Persistence and degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined.

Chemical Name	Partition coefficient
2-Butoxyethanol 111-76-2	0.81
Monoethanolamine 141-43-5	-1.91

Other adverse effects Not determined

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesDisposal 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 Not Regulated

Proper shipping name

Hazard Class Packing Group

IATA

UN/ID No Not Regulated

Proper shipping name

Hazard Class
Packing Group

IMDG

UN/ID No Not Regulated

Proper shipping name

Hazard Class
Packing Group

15. REGULATORY

International Inventories

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

US Federal Regulations

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
2-Butoxyethanol - 111-76-2	111-76-2	<18	1.0

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

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-Butoxyethanol 111-76-2	X	X	X
Monoethanolamine 141-43-5	X	X	X
Sodium hydroxide 1310-73-2	X	X	X

U.S. EPA Label Information

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

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 26-Feb-2015

Revision Note new format 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