Safety Data Sheet

12/31/2015 Issue date:

Section 1: Product and Company Information

ACS Tornado I Disinfectant Cleaner Product Identifier:

14001403, 14001404, 360030, 360031, 360032 Product Code/SKU:

Recommended Use: Disinfectant / Sanitizer / Deodorizer Restrictions on Use: Use only for purpose found on label.

Product Dilution Information Normal usage range 0.3906 - 1.5625%

Manufacturer: **American Chemical Systems II, LLC**

> 3505 W. 29th Street South Wichita, KS USA 67217

(800)889-3489

americanchemicalsystems.com Chemtrec 1-800-424-9300 USA and Canada

Emergency Telephone: Chemtrec 1-703-527-3887 Outside USA and Canada

Section 2: Hazard Identification

Product as Sold	Product at use Dilution
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GHS Classification: Harmful if swallowed Not classified

Causes severe skin burns and eye damage

GHS Labeling Element

Signal Word: No signal word No signal word Symbol: No symbol No symbol

Hazard Statement: Harmful if swallowed No known significant effects or

> Causes severe skin burns and eye damage hazards

Precautionary Statements:

Prevention: Wash hands with water after Wash hands with water after

handling handling

Response:

If in eye:

Storage:

If swallowed: Drink promptly a large amount of milk, egg Seek medical assistance if

whites, gelatin solution, or water. Avoid symptoms persist. alcohol. Do not induce vomiting.

If on skin: Wash with water, remove contaminated

clothing.

Inhalation: Remove person to fresh air - administer

artificial respiration if not breathing. Flush continuously with water - remove

contacts and continue flushing with water. Seek medical assistance if symptoms persist. Treatment:

Keep product stored in original container, in

an upright position, with container tightly

Dispose of contents/container according to

Disposal: Dispose of contents/container according to

local/regional regulations. local/regional regulations.

Other Hazards: None known None known

Section 3: Composition/Information on Ingredients

		Product as Sold		Product at use Dilution
Substance/Mixture:	Mixture			
Chemical name		Product Identifier	%	
Didecyl Dimethyl Ammonium	n Chloride	CAS 7173-51-5	9-12%	Within the current knowledge of the manufacturer and in the concentrations
i i i j				applicable, there are no hazardous

There are no additional ingredients present which, within the current knowledge of the manufacturer and in the concentrations applicable, are classified as hazardous to health or to the environment and hence require reporting in this section. Concentrations are given in a range as a claim for a trade secret is being made.

ingredients that would require reporting.

Seek medical assistance if symptoms persist.

Seek medical assistance if symptoms persist.

or concerns are present.

Section 4: First Aid Measures

If swallowed:

First Aid Measures: Product as Sold Product at use Dilution

Sip water if able to swallow. Do not induce

General: Never give anything by mouth to an Never give anything by mouth to an

unconscious person. If you feel unwell, then unconscious person. If you feel unwell,

seek medical assistance. then seek medical assistance.

vomiting unless directed by poison control or

doctor. Do not give anything by mouth to an

unconscious person.

If on skin: Wash with water, remove contaminated No known effect after skin contact. Rinse

clothing. w/ water.

Inhalation: Remove person to fresh air - administer No specific measures required.

artificial respiration if not breathing.

If in eye: No know effect with eye contact. Flush with

contacts and continue flushing with water. water.

Treatment: Seek medical assistance if symptoms persist.

Important Symptoms and Effects, both Acute and Delayed

Symptoms/Injuries: Effects of exposure may be delayed.

If swallowed: Sip water if able to swallow. Do not induce

vomiting unless directed by poison control or doctor. Do not give anything by mouth to an

unconscious person.

If on skin: No known effects. Rinse with water.

Inhalation: No special measures required. Treat

symptomatically.

If in eye: Rinse with water. Remove contacts. Continue

rinsing.

Recommendation: Seek medical assistance if symptoms persist Seek medical assistance if symptoms persist

or concerns are present.

First Aid Providers All first aid providers should receive proper training before performing any first aid act

that would involve personal risk. Wash contaminated clothing with water thoroughly

before removal or wear gloves.

Section 5: Firefighting Measures

Suitable Fire Extinguishing

Media: No special media necessary. Use extinguishing media appropriate for surrounding fire.

Special Hazards: Product is non flammable and is not explosive.

Advice for Firefighters: Exercise caution when fighting any chemical fire. Use a water spray to cool containers.

Do not enter fire area without proper protective equipment, including respiratory

protection.

Section 6: Accidental Release Measures

Personal Precautions: Initiate company's spill procedures. Do not walk through or touch spilled product. Do not

get on skin, in eyes, or on clothing. Put on appropriate personal protection equipment.

Environmental Precautions: Avoid runoff into public waterways, sewers, or onto soil.

Methods for Clean Up: Follow company's spill procedures. Put on appropriate protective clothing. Neutralize/

absorb spilled product with inert material. Dispose of inert material by placing in suitable container. Dispose of waste safely. Rinse with water for a final clean up.

Section 7: Handling and Storage

Precautions for Safe

Handling: Do not get on skin, in eyes, or on clothing. Do not breathe vapor or mist. Do not handle

until all safety procedures have been read and understood. Wash hands and other

exposed areas with soap and water after handling.

Conditions for Safe Storage: Keep product in original container, in an upright position, with container tightly closed.

Keep out of reach of children.

Section 8: Exposure Controls/Personal Protection

Control parameters:

Ingredient Name Exposure Limits

Didecyl Dimethyl Ammonium Chloride CAS 7173-51-5 Acute Oral LD50: 450 / mg/kg

Product as Sold

Engineering Controls: Use adequate ventilation. Keep vapor/fumes Normal ventilation should be adequate

below statutory limits. Provide availability to water to flush skin or eyes in case of

exposure.

Personal Protection:

General:

Hand protection: Wear gloves when handling concentrate Eye protection: Wear safety glasses when handling concentrate Skin protection: Wear gloves when handling concentrate Respiratory protection: None needed under normal use conditions

None needed under normal use conditions Wash hands, face, and arms after handling chemical products and before eating, drinking,

or using restroom. Wash contaminated clothing before wearing again.

Section 9: Physical and Chemical Properties

Product as Sold Physical state: Liquid Color: Green Odor: Chemical pH: 11 - 13

Evaporation rate: No data available Melting point: No data available Freezing point: No data available Boiling point: No data available Flash point: No data available **Explosion limits:** No data available Flammability (solid/gas): No data available Vapor pressure: No data available Vapor density: No data available Relative density: >1 (water=1) Solubility: Complete No data available **Decomposition temperature:**

Product at use Dilution

Product at use Dilution

None needed under normal use conditions

None needed under normal use conditions

None needed under normal use conditions

to control vapor/fumes.

Liquid Light green Chemical

No specific data

Section 10: Stability and Reactivity

Reactivity: Product is not reactive

Chemical stability: Stable.

Hazardous Reactions: Hazardous polymerization will not occur under normal use conditions.

Conditions to Avoid: Direct sunlight. Extreme temperatures.

Incompatible Materials: Strong oxidizers.

Hazardous Decomposition Carbon dioxide, carbon monoxide, ammonia, nitrous oxides, hydrogen chloride

Products: not occur.

Section 11: Toxicological Information

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

> **Product as Sold Product at use Dilution**

Symptoms: Ingestion: Ingestion may be harmful.

Skin Contact: Adverse effects: irritation, redness No specific data Inhalation: Adverse effects: cough, respiratory irritation No specific data Adverse effects: redness, watering, irritation No specific data **Eve Contact:**

Acute Toxicity: Ingestion: Ingestion my be harmful

No known effects or critical hazards Skin Contact: No known effects or critical hazards No known effects or critical hazards No known effects or critical hazards Inhalation: No known effects or critical hazards **Eve Contact:** No known effects or critical hazards No known effects or critical hazards

Toxicity Data: Didecyl Dimethyl Ammonium Chloride CAS 7173-51-5 Acute Oral LD50: 450 / mg/kg

Carcinogenicity: No known effects or critical hazards Reproductivity: No known effects or critical hazards

Section 12: Ecological Information

Toxicity: Exposure **Species**

Persistence and degradability: Not established Bioaccumulative potential: Not established Mobility in Soil: Not established Other adverse effects: None noted

Section 13: Disposal Considerations

Product as Sold Product at use Dilution

Disposal methods: Dispose of waste in accordance with local,

regional, and national regulations

Diluted product may be drained to sanitary sewer. Discard empty container into trash.

Section 14: Transport Information

In accordance with: ICAO/IATA/DOT/TDG

Product at use Dilution Product as Sold

DOT Classification: Not regulated Product not to be transported in this

DOT Shipping name: Not regulated manner

Class:

Packing Group:

Bulk Transport: See shipping documents for specific transportation information

Marine Pollutant:

Section 15: Regulatory Information

US Federal Regulations:

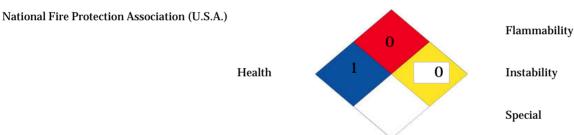
TSCA 8(b) Inventory All components are listed or exempted **SARA 304** No chemicals subject to reporting

SARA 311/312 Acute health hazard

SARA 302 No chemicals subject to reporting **SARA 313** No chemicals subject to reporting

Section 16: Other Information

Product as Sold Product at use Dilution Hazardous Material Information System: Health Health 0 0 0 hysical Hazards hysical Hazards 0



The information provided in this SDS Safety Data Sheet is correct to the best of knowledge, information, and belief at this date of publication. The information given is designed only as a guide for safe usage, handling, transporting, storage, disposal and is not to be considered a warranty or quality specification. No warranty, either express or implied, is made to the completeness or continuing accuracy of this information.