



Safety Data Sheet

Issue Date: 25-Feb-2020

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Version 4

1. IDENTIFICATION

Product identifier

Product Name Altra Disinfecting Tablets

Other means of identification

SDS # BE-7011A
Product Code 7025
Registration Number(s) EPA Reg. No. 71847-7-559
Other Information Disinfectant solution dose (in available chlorine): 0.5 - 5550 ppm.

Recommended use of the chemical and restrictions on use

Recommended Use Surface disinfection.

Details of the supplier of the safety data sheet

| Supplier Address | Manufacturer Address |
|---|---|
| Buckeye International, Inc. 2700 Wagner Place Maryland Heights, MO 63043 USA Phone: 1-314-291-1900 | Medentech Ltd. Clonard Road Wexford, Ireland Phone: (+353) 53 - 911 7900 |

Emergency telephone number

Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Emergency Overview This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% |
|---------------------------------------|---------------|-----------------|
| Dichloroisocyanuric acid, sodium salt | 2893-78-9 | 0.000025-0.28 |

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General Advice Provide this SDS to medical personnel for treatment.

| | |
|---------------------|--|
| Eye Contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. |
| Inhalation | Remove to fresh air. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. |

Most important symptoms and effects, both acute and delayed

| | |
|-----------------|---|
| Symptoms | See Section 11: Toxicological Information of this SDS for more detailed symptoms. |
|-----------------|---|

Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|------------------------|
| Notes to Physician | Treat symptomatically. |
|---------------------------|------------------------|

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Dry powder. Foam.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|-----------------------------|--|
| Personal Precautions | Ventilate affected area. Wear protective clothing as described in Section 8 of this safety data sheet. |
|-----------------------------|--|

Environmental precautions

| | |
|----------------------------------|---|
| Environmental precautions | Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. |
|----------------------------------|---|

Methods and material for containment and cleaning up

| | |
|--------------------------------|---|
| Methods for Containment | Prevent further leakage or spillage if safe to do so. |
| Methods for Clean-Up | Take up mechanically. Keep in suitable, closed containers for disposal. Dispose of in accordance with federal, state and local regulations. |

7. HANDLING AND STORAGE

Precautions for safe handling

| | |
|--------------------------------|---|
| Advice on Safe Handling | Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Wear appropriate personal protective equipment. Do not eat, drink or smoke when using this product. |
|--------------------------------|---|

Conditions for safe storage, including any incompatibilities

| | |
|-------------------------------|--|
| Storage Conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. |
| Incompatible Materials | None known based on information supplied. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|-------------------------|--------------------------|----------|------------|
| Adipic acid 124-04-9 | TWA: 5 mg/m ³ | - | - |

Appropriate engineering controls

| | |
|-----------------------------|---|
| Engineering Controls | Apply technical measures to comply with the occupational exposure limits. |
|-----------------------------|---|

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------|---|
| Eye/Face Protection | For prolonged or repeated use or when eye contact may occur, wear safety glasses or chemical splash goggles. Refer to 29 CFR 1910.133 for eye and face protection regulations. |
| Skin and Body Protection | If anticipated that prolonged and repeated skin contact will occur during use of this product, wear gloves for routine industrial use. Refer to 29 CFR 1910.138 for appropriate skin and body protection. |
| Respiratory Protection | Inhalation is an unlikely route of exposure in this type of product. Refer to 29 CFR 1910.134 for respiratory protection requirements. |

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**

NOTE: THE PHYSICAL/CHEMICAL PROPERTIES OUTLINED BELOW RELATE TO THE TABLET PRODUCT WHICH IS USED TO PREPARE THE IN-HOUSE DILUTION SOLUTION.

| | | | |
|-----------------------|-------------------|-----------------------|-----------------|
| Physical state | Solid | Odor | Slight chlorine |
| Appearance | Off white tablets | Odor Threshold | Not determined |
| Color | Off white | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|---------------------------------------|-------------------------|
| pH | 5.5 - 6.5 for neat form (as supplied) | |
| Melting point / freezing point | No data available | |
| Initial boiling point and boiling range | No data available | |
| Flash point | No data available | |
| Evaporation Rate | Not determined | |
| Flammability (Solid, Gas) | Not determined | |
| Flammability Limit in Air | | |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| Vapor Pressure | Not determined | |
| Vapor Density | No data available | |
| Relative Density | Not determined | |
| Water Solubility | Completely soluble | |
| Solubility in other solvents | Not determined | |

| | |
|---------------------------------|-------------------|
| Partition Coefficient | Not determined |
| Autoignition temperature | No data available |
| Hyphen | 225 - 250°C |
| Kinematic viscosity | Not determined |
| Dynamic Viscosity | Not determined |
| Explosive Properties | Not determined |
| Oxidizing Properties | Not determined |

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.

Conditions to Avoid

None under normal processing. See Sec. 7 Handling & Storage.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

| | |
|---------------------|--|
| Eye Contact | Avoid contact with eyes. |
| Skin Contact | Avoid contact with skin. |
| Inhalation | Unlikely- Not applicable. |
| Ingestion | Not expected to cause any harmful effects if ingested. |

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|-----------------------|-------------------------|--------------------------------------|
| Dichloroisocyanuric acid, sodium salt 2893-78-9 | = 1823 mg/kg (Rat) | > 5000 mg/kg (Rat) | 0.27 - 1.17 mg/L (Rat) 4 h |
| Adipic acid 124-04-9 | > 11000 mg/kg (Rat) | > 7940 mg/kg (Rabbit) | > 7700 mg/m ³ (Rat) 4 h |
| Sodium Bicarbonate 144-55-8 | = 4220 mg/kg (Rat) | - | - |

Symptoms related to the physical, chemical and toxicological characteristics

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 Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|--|--|---|---|
| Dichloroisocyanuric acid, sodium salt 2893-78-9 | | LC50: 0.25 - 1mg/L (96h, Lepomis macrochirus) LC50: 0.207 - 0.389mg/L (96h, Lepomis macrochirus) LC50: 0.176 - 0.267mg/L (96h, Oncorhynchus mykiss) LC50: =0.29mg/L (96h, Oncorhynchus mykiss) LC50: 0.13 - 0.36mg/L (96h, Oncorhynchus mykiss) | EC50: 0.00018 - 0.00021mg/L (48h, Daphnia magna) EC50: 0.093 - 0.16mg/L (48h, Daphnia magna) |
| Adipic acid 124-04-9 | EC50: =31.3mg/L (72h, Desmodesmus subspicatus) EC50: =26.6mg/L (96h, Desmodesmus subspicatus) | LC50: =97mg/L (96h, Pimephales promelas) | EC50: =85.7mg/L (48h, Daphnia magna) |
| Sodium Bicarbonate 144-55-8 | | LC50: 8250 - 9000mg/L (96h, Lepomis macrochirus) | EC50: =2350mg/L (48h, Daphnia magna) |

Persistence/Degradability

This material is believed not to persist in the environment. Free available chlorine is rapidly consumed by reaction with organic and inorganic materials to produce chloride ion. The stable degradation products are chloride ion and cyanuric acid. This material is subject to hydrolysis. Cyanuric acid produced by hydrolysis is biodegradable.

Bioaccumulation

There is no data for this product.

Mobility

Not determined

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.

California Hazardous Waste Status

| Chemical name | California Hazardous Waste Status |
|--|-----------------------------------|
| Dichloroisocyanuric acid, sodium salt 2893-78-9 | Ignitable |

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

| Chemical name | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS | AIC |
|---------------------------------------|------|-----------------------|----------|---------------|------|-------|------|-------|-----|
| Dichloroisocyanuric acid, sodium salt | X | ACTIVE | X | X | X | X | X | X | X |
| Adipic acid | X | ACTIVE | X | X | X | X | X | X | X |
| Sodium Bicarbonate | X | ACTIVE | X | X | X | X | X | X | X |

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

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

| Chemical name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|-------------------------|--------------------------|----------------|--|
| Adipic acid 124-04-9 | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42). However no ingredients are present in this product above the reportable quantities as it is currently packaged.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| Dichloroisocyanuric acid, sodium salt 2893-78-9 | X | X | X |
| Adipic acid 124-04-9 | X | X | X |

EPA Pesticide Registration Number EPA Reg. No. 71847-7-559

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

Please refer to EPA label for additional information

Difference between SDS and EPA pesticide label

Please refer to EPA label for additional information

16. OTHER INFORMATION

| <u>NFPA</u> | Health hazards | Flammability | Instability | Special hazards |
|-------------|----------------|--------------|------------------|---------------------|
| | - | - | - | - |
| <u>HMIS</u> | Health hazards | Flammability | Physical hazards | Personal Protection |
| | 0 | 0 | 0 | Not determined |

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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