

SECTION 1: Identification

Identification

Product form : Mixture
Product name : Defense Disinfectant Tablets
Product code : DTAB001 / DTAB002

Recommended use and restrictions on use

Recommended use : Disinfectant

Supplier

Defense Soap LLC
3390 Liberty Ave.
Vermilion, OH 44089
T 866-544-1689

Emergency telephone number

Emergency number : Defense Soap LLC: 1-866-544-1689

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS-US classification

Acute toxicity (oral) Category 4 Harmful if swallowed
Serious eye damage/eye irritation Category 2A Causes serious eye irritation

GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US): Warning
Hazard statements (GHS US): Harmful if swallowed
Causes serious eye irritation

Precautionary statements (GHS US)

Prevention:

Use only in a well-ventilated area. Avoid breathing dust. Wear eye protection, protective gloves. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Protect from moisture.

Response:

IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

Storage:

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

Disposal:

Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

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Other hazards which do not result in classification

Other hazards not contributing to the classification : Contact with acids liberates toxic gas.

Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

| Name | Product identifier | Weight (%) |
|-------------------|---------------------|------------|
| troclosene sodium | (CAS-No.) 2893-78-9 | 40 - 50 |
| adipic acid | (CAS-No.) 124-04-9 | 30 - 40 |
| sodium carbonate | (CAS-No.) 497-19-8 | 10 - 20 |

SECTION 4: First-aid measures

Description of first aid measures

- First-aid measures general : Call a poison center/doctor/physician if you feel unwell. Get medical advice/attention if you feel unwell.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water.
- First-aid measures after eye contact : Rinse eyes with water as a precaution. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

Most important symptoms and effects (acute and delayed)

Symptoms/effects after eye contact : Eye irritation.

Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

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Environmental precautions

Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

Control parameters

| Defense Disinfectant Tablets | | |
|-------------------------------|--------------------------------|---------------------------------|
| ACGIH | Local name | Adipic acid |
| ACGIH | ACGIH TWA (mg/m ³) | 5 mg/m ³ |
| ACGIH | Remark (ACGIH) | TLV® Basis: URT irr; ANS impair |
| ACGIH | Regulatory reference | ACGIH 2019 |
| troclosene sodium (2893-78-9) | | |
| Not applicable | | |
| adipic acid (124-04-9) | | |
| ACGIH | Local name | Adipic acid |
| ACGIH | ACGIH TWA (mg/m ³) | 5 mg/m ³ |
| ACGIH | Remark (ACGIH) | TLV® Basis: URT irr; ANS impair |
| ACGIH | Regulatory reference | ACGIH 2019 |
| sodium carbonate (497-19-8) | | |
| Not applicable | | |

Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

Individual protection measures/Personal protective equipment

Hand protection:

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Protective gloves

Eye protection:

Safety glasses

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | : Solid |
| Appearance | : Tablets. : white : slight chlorine-like |
| Odor threshold | : No data available |
| pH | : No data available |
| pH solution | : 5.5 - 6.5 when diluted |
| Melting point | : No data available |
| Freezing point | : Not applicable |
| Boiling point | : not applicable |
| Flash point | : not applicable |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : Water: 100 % |
| Log Pow | : No data available |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : Not applicable |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| VOC content | : 0 % Less Exempts and Water |

SECTION 10: Stability and reactivity

Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

Conditions to avoid

None under recommended storage and handling conditions (see section 7).

Incompatible materials

No additional information available

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| | |
|---------------------|--------------------------|
| ATE US (oral) | 1823 mg/kg body weight |
| ATE US (dermal) | >2,000 mg/kg body weight |
| ATE US (gases) | >20,000 ppm/4h |
| ATE US (vapors) | >20 mg/l/4h |
| ATE US (dust, mist) | >5 mg/l/4h |

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

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| | |
|--|------------|
| IARC group | Not listed |
| National Toxicity Program (NTP) Status | Not listed |

Reproductive toxicity : Not classified
Specific target organ toxicity – single exposure : Not classified
Specific target organ toxicity – repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Symptoms/effects after eye contact : Eye irritation.

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SECTION 12: Ecological information

Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Persistence and degradability

troclosene sodium (2893-78-9)

| | |
|-------------------------------|--|
| Persistence and degradability | Readily biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water. |
|-------------------------------|--|

adipic acid (124-04-9)

| | |
|-------------------------------|--|
| Persistence and degradability | Readily biodegradable in the soil. Readily biodegradable in water. |
|-------------------------------|--|

| | |
|---------------------------------|-------------------------------------|
| Biochemical oxygen demand (BOD) | 0.598 g O ₂ /g substance |
|---------------------------------|-------------------------------------|

| | |
|------------------------------|------------------------------------|
| Chemical oxygen demand (COD) | 1.38 g O ₂ /g substance |
|------------------------------|------------------------------------|

| | |
|------|-------------------------------------|
| ThOD | 1.423 g O ₂ /g substance |
|------|-------------------------------------|

sodium carbonate (497-19-8)

| | |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
|-------------------------------|-----------------------------------|

| | |
|---------------------------------|----------------------------|
| Biochemical oxygen demand (BOD) | Not applicable (inorganic) |
|---------------------------------|----------------------------|

| | |
|------------------------------|----------------------------|
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
|------------------------------|----------------------------|

| | |
|------|----------------------------|
| ThOD | Not applicable (inorganic) |
|------|----------------------------|

Bioaccumulative potential

troclosene sodium (2893-78-9)

| | |
|---------|------------------------|
| Log Pow | -0.0556 (QSAR, KOWWIN) |
|---------|------------------------|

| | |
|---------------------------|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |
|---------------------------|----------------------|

adipic acid (124-04-9)

| | |
|---------|--|
| Log Pow | 0.093 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) |
|---------|--|

| | |
|---------------------------|--|
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
|---------------------------|--|

sodium carbonate (497-19-8)

| | |
|---------|-------------------------|
| Log Pow | -6.19 (Estimated value) |
|---------|-------------------------|

| | |
|---------------------------|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |
|---------------------------|----------------------|

Mobility in soil

troclosene sodium (2893-78-9)

| | |
|---------|-----------------------------------|
| Log Koc | 1.7 (log Koc, Experimental value) |
|---------|-----------------------------------|

| | |
|----------------|------------------------|
| Ecology - soil | Highly mobile in soil. |
|----------------|------------------------|

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adipic acid (124-04-9)

| | |
|----------------|---|
| Ecology - soil | No (test)data on mobility of the substance available. |
|----------------|---|

sodium carbonate (497-19-8)

| | |
|----------------|---------------------------------------|
| Ecology - soil | Low potential for adsorption in soil. |
|----------------|---------------------------------------|

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Disposal methods

Waste treatment methods : Dispose of in accordance with relevant local regulations.

SECTION 14: Transport information

US - DOT

Not regulated for transport

International shipping – IMDG

Not regulated for transport

International – IATA

Not regulated for transport

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

adipic acid (124-04-9)

| | |
|-----------|---------|
| CERCLA RQ | 5000 lb |
|-----------|---------|

15.2. International regulations

CANADA

troclosene sodium (2893-78-9)

Listed on the Canadian DSL (Domestic Substances List)

adipic acid (124-04-9)

Listed on the Canadian DSL (Domestic Substances List)

sodium carbonate (497-19-8)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

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sodium carbonate (497-19-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

sodium carbonate (497-19-8)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| Component | State or local regulations |
|------------------------------|--|
| troclosene sodium(2893-78-9) | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |
| adipic acid(124-04-9) | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.