



## Safety Data Sheet

Date of issue: 2018.08.21

### Section 1. Identification of the substance/mixture and of the company/undertaking

**1.1 Product name:** TD 8<sup>®</sup> Disinfectant

**Synonyms:** None.

**Composition:** an aqueous 0.59% (w/v) ortho-phthalaldehyde (OPA) solution.

**Product code:** CS-TD-8

**1.2 Relevant identified uses:** High level disinfectant for use in TD 100<sup>®</sup> / TD 100CE disinfectant.

**1.3 Supplier:**

CS Medical, LLC  
2179 East Lyon Station Road  
Creedmoor, North Carolina 27522  
United States of America

Company service telephone: +1-(919) 255-9472  
CS Medical email contact: info@csmedicalllc.com

**1.4 Emergency Telephone Number:** CHEMTREC Emergency telephone number: in USA (800-424-9300), outside USA +1-(703) 527-3887

### Section 2. Hazards identification

#### 2.1 Classification:

GHS Classification

Skin Irritation 2

Eye Irritation 2

Signal Word: Warning

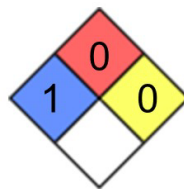


NFPA Rating

Health 1

Flammability 0

Reactivity 0



#### 2.2 GHS Label Elements:

Code

H315:

H319:

Hazard Statements

Causes skin irritation

Causes serious eye irritation

Code

P280:

Prevention

Wear protective gloves/ protective clothing/ eye protection/ face protection

Code

P264:

P302+P352:

P305+P351+

P338:

Precautionary Statements

Wash skin thoroughly after handling.

IF ON SKIN, wash with plenty of soap and water.

IF IN EYES rinse continuously with water for several minutes. Remove contact lenses if present. Continue rinsing.

Code

P332+P313:

P362:

Response

IF SKIN irritation occurs: get medical attention/advice.

Take off contaminated clothing and wash before reuse

### Section 3. Composition/Information on ingredients

Component	Weight %	CAS Number	CS Medical	NTP:	IARC:	California Prop. 65 limit
Ortho-phthalaldehyde (OPA or 1,2-benzenedicarboxaldehyde)	0.59%	643-79-8	Not determined	Not determined	Not determined	Not determined

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## Section 4. First aid measures

### 4.1 Description of first aid measures:

**4.1.1 General information:** Remove contaminated, saturated clothing immediately. In the case of accident or illness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**4.1.3 Following skin contact:** Wash immediately with soap and water. In case of skin irritation, consult a physician.

**4.1.4 Following eye contact:** After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**4.1.5 Following ingestion:** Do not induce vomiting. Rinse mouth followed by drinking a large quantity of water. Seek medical attention.

**4.1.6 Self-protection of the first aider:** First aider: pay attention to self-protection.

**4.2 Most important symptoms:** Development of gray skin lesions upon spill contact with skin.

**4.3 Indications of immediate medical attention:** Provide first aid, decontaminate area. Seek medical attention if eye contact or ingestion occurs. See a physician if skin contact results in irritation. Notes to physician: Probable damage to the mucosa from oral exposure may contraindicate the use of gastric lavage.

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## Section 5. Firefighting measures

**Flash point :** Not applicable

**Flammable limits:** Not applicable

**Autoignition temperature:** Not applicable

**Explosion:** Not normally an explosion hazard

**5.1 Extinguishing media:** Any means suitable for surrounding fire.

**5.2 Special hazards arising from the substance or mixture:** Hazardous combustion products: None

**5.3 Advice for fire-fighters:** Special protection equipment: Wear a self-contained breathing apparatus and chemical protective clothing.

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## Section 6. Accidental release measures

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

**6.1.1 For non-emergency personnel:** User personal protective equipment, see Section 8.

**6.1.2 For emergency responders:** Remove persons to safety. Isolate hazard area and deny entry. Ventilate closed spaces before entering. Use personal protective equipment. see Section 8.

**6.2 Environmental precautions:** Prevent further leakage or spillage if safe to do so. Avoid washing down sewers or waterways. Discharge into the environment must be limited.

### 6.3 Methods and materials for containment and cleanup:

**6.3.1 For containment:** Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal. Large spills may be neutralized with sodium bisulfite (~ 100 gr/liter), glycine (~10 gr/liter), or Glycinex™ Neutralizer (~10 gr/liter). Allow 5 minutes contact for neutralization, then transfer to a properly labeled container. Dispose of according to local regulations. Prevent further leakage or spillage if safe to do so.

**6.3.2 For cleanup:** Clean contaminated surfaces thoroughly.

**6.4 Reference to other sections:** Personal protection equipment: See Section 8.

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## Section 7 Handling and storage

**7.1 Precautions for safe handling:** Put on personal protective equipment. This includes nitrile gloves, chemically resistant gown or apron, and chemical goggles. Wear protective attire for the entire procedure. Handle containers with care. Remove the lid of the unopened bottle of TD-8 Disinfectant while leaving the foil seal intact. Make sure the foil is intact, then invert the bottle and place in the loading position of the TD 100/TD 100CE Disinfectant. You will feel resistance as the piercer penetrates the foil seal. Push the bottle down to complete the piercing. The disinfectant will drain into the

disinfecting reservoir. Retain the cap for use after the run is complete. Remove the bottle after run is complete, re-cap and discard.

**7.2 Conditions for safe storage, including incompatibilities:** This product should be stored at controlled room temperature between 59°F (15°C) and 86°F (30°C). Keep containers tightly closed. This product can be stored with other chemicals, is not flammable, and no special fire protection measures are necessary.

**7.3 Specific end uses:** TD-8 disinfectant is for exclusive use in the TD 100/TD 100CE Disinfectant in accordance with operating instructions. Do not use content for any other reason. Do not use with any other disinfectant device, either manual or automated.

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## Section 8. Exposure control/personal protection

**Control Parameters:** TD-8 Disinfectant contains no chemical substances with occupational exposure limit values.

**Skin protection:** Chemical resistant gloves are recommended. Use nitrile, not latex, gloves.

**Eye Protection:** Laboratory safety goggles, safety glasses or face shield are required.

**Ingestion:** Do not ingest, drink, or use in the presence of food.

**Environmental exposure controls:** In the case of a spill decontaminate as described in Section 6 of this SDS. Prevent further leakage or spillage if safe to do so.

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## Section 9. Physical and chemical properties

<b>Physical state:</b>	Liquid	<b>Freezing point/range:</b>	0°C (32 °F)
<b>Color/appearance:</b>	Light blue/clear	<b>pH:</b>	7 - 8
<b>Boiling temperature:</b>	100°C (212°F)	<b>Specific gravity:</b>	1.00 g/cc
<b>Odor:</b>	Slight Odor	<b>Evaporation rate:</b>	Similar to water

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## Section 10. Stability and reactivity

**Chemical stability:** Stable under recommended storage conditions.

**Hazardous polymerization:** Hazardous polymerization not known to occur.

**Hazardous decomposition products:** Hazardous decomposition not known to occur.

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## Section 11. Toxicological information

### Acute toxicity

**LD50/oral/rat (mg/kg):** >5000 mg/kg

**LD50 Dermal Rabbit (mg/kg):** >2000 mg/kg

### Local effects

**Oral:** Non-toxic

**Eye irritation:** May cause eye irritation

**Skin irritation:** May cause skin irritation

**Inhalation:** Unknown on product.

### Chronic toxicity

**Oral:** Unknown for product

**Reproductive:** Unknown for product

**Dermal:** Unknown for product

**Inhalation:** Unknown for product

**Subchronic toxicity:** No observed effect limit of 5 mg/kg/day observed in rats administered pure OPA once per day for 90 days.

**Developmental effects:** Oral administration of OPA to pregnant rats indicated that at maternally non-toxic doses (less than 10 mg/kg/day) there was no developmental effect.

**Allergic reactions:** Anecdotal evidence in human case studies

**Corrosive effects:** None

**Target organ effects:** None

**Ames test:** Negative

**Carcinogenicity:** Ingredients in TD-8 Disinfectant are not known or suspected carcinogens.

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## Section 12. Ecological information

### 12.1 Toxicity:

Code Statement:

H412: Hazard Statement: May cause long-term adverse effects in the aquatic environment

P273: Precautionary statement prevention: Avoid release to the environment

P501: Precautionary statement disposal: Dispose of container and waste effluent according to local, state, federal, and Union regulations.

LC50 of OPA for freshwater fish: 0.07 mg/liter

EC50 of OPA for freshwater Crustaceans: 0.09 mg/liter

**12.2 Persistence and degradability:** Not established

**12.3 Bioaccumulative potential:** Not established

**12.4 Mobility in soil:** No information available

### Section 13. Disposal considerations

**13.1 Waste treatment methods:** Waste disposal recommendations: Waste disposal according to Directive 2008/98/EC, covering waste and dangerous waste.

**13.1.1 Waste-treatment-relevant information:** Dispose of container and waste effluent according to local, state, federal, and Union regulations.

**13.1.2 Sewage disposal-relevant information:** Neutralize aldehyde in effluent with Glycine (~10 gr/liter).

### Section 14. Transportation information- Not regulated

### Section 15 Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.1.1 EU Regulations:** No REACH Annex XVII restrictions. Contains no REACH candidate substance.

**15.1.2 National regulations:** No additional information available

**15.2 Chemical safety assessment:** No chemical safety assessment has been carried out.

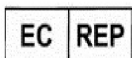
### Section 16. Other information

This Safety Data Sheet was formatted for compliance with (EC) 1907/2006. Classifications and procedures used to derive the hazards categories for mixtures is according to Regulation (EC) 1272/2008 (CLP).

This SDS information is believed to be correct but is not warranted as such, nor does it purport to be all-inclusive. Prepared by Kendall Ashe Last revised on August 21, 2018.

### End of Safety Data Sheet

EC Authorized Representative



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