

# SAFETY DATA SHEET

## Section 1. Identification

**Product name :** DSC CIDE

**Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses :** Industrial bactericide  
**Creation date :** 05/20/2015  
**Print date :** 05/20/2015  
**Version :** 1.0  
**Supplier's details :** Deep South Chemical, Inc. 229 Millstone Road, Broussard LA 70518  
For Product Information/MSDSs Call: 337-837-9931  
**Emergency telephone number (with hours of operation) :** CHEMTREC 800-424-9300 (U.S. 24 hour)  
(001)281-276-5400  
CANUTEC 613-996-6666 (Canada 24 hours)  
CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

## Section 2. Hazards identification

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

### 2.1 Classification of the substance or mixture

ACUTE TOXICITY: ORAL - Category 3  
ACUTE TOXICITY: SKIN - Category 4  
ACUTE TOXICITY: INHALATION - Category 3  
SKIN CORROSION/IRRITATION - Category 1B  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
RESPIRATORY SENSITIZATION - Category 1  
SKIN SENSITIZATION - Category 1  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3  
AQUATIC HAZARD (ACUTE) - Category 1  
AQUATIC HAZARD (LONG-TERM) - Category 3

### 2.2 GHS label elements



**Hazard pictograms :**

**Signal Word :** Danger

**Hazard statements**

H301 Toxic if swallowed or if inhaled.

H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects

**Precautionary statements**Prevention

P261	Avoid breathing vapors
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothes should not be allowed out of the workplace
P273	Avoid release to the environment
P280	Wear protective gloves. Wear eye or face protection. Wear protective clothing
P284	In case of inadequate ventilation wear respiratory protection

Response

P391	Collect spillage.
P304+P340+P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or physician.
P301+P310+P330+331	IF SWALLOWED: Immediately call a POISON CENTER. Rinse mouth. Do NOT induce vomiting.
P302+P361+P353+P310+P363	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER. Wash contaminated clothing before reuse.
P302+P352+P312	IF ON SKIN: Wash with plenty of water. Call a doctor if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical attention.
P305+P351+P338+P310	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.

Storage

P405	Store locked up.
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Disposal

P501	Dispose of contents/container in accordance with local, regional, national and international regulations.
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**Classification system**

<b>NFPA ratings: Health (3)</b>	<b>Fire (1)</b>	<b>Reactivity (0)</b>	<b>Special ( )</b>
<b>HMIS ratings: Health (3)</b>	<b>Fire (1)</b>	<b>Reactivity (0)</b>	

**Hazards not otherwise classified** : No additional information.

**Section 3. Composition/information on ingredients**

**Substance/mixture** : Substance

Ingredient name	%	CAS number
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Glutaraldehyde	25-60	111-30-8
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## Section 4. First aid measures

### 4.1 Description of necessary first aid measures

<b>Eye contact</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 20-60 minutes. Check for and remove any contact lenses. Immediately call a Poison Center or doctor/physician.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. Immediately call a poison center or physician. If unconscious, place in a recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt, or waistband.
<b>Skin contact</b>	Flush contaminated skin with water for 20-60 minutes. Wash with plenty of soap and water. Remove contaminated clothing and shoes while washing. Call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

### 4.2 Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	Causes serious eye damage.
<b>Inhalation</b>	Toxic if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Skin contact</b>	Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction.
<b>Ingestion</b>	Toxic if swallowed. May cause burns to mouth, throat and stomach.
<b>Chronic symptoms</b>	Pain or irritation, watering, and redness of eyes. Respiratory tract irritation, coughing, wheezing, and breathing difficulties. Pain or irritation, redness and blistering to the skin. Stomach pains.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Use an extinguishing agent suitable for the surrounding fire.
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**Unsuitable extinguishing media** No unsuitable extinguishing media known.

### 5.2 Specific hazards arising from the chemical

**Fire Hazard** In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Decomposition products may include carbon dioxide, carbon monoxide.

**Explosion Hazard** Pressure increase may burst container.

### 5.3 Advice for firefighters

**Precautionary measures** Keep upwind. Consider evacuation. Have neighborhood close doors and windows.

**Firefighting instructions** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-plate operated in positive pressure mode.

## **Section 6. Accidental release measures**

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

**For non-emergency personnel** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** Equip cleanup crew with proper protection. Ventilate area.

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). May be harmful to the environment if released in large quantities.

### 6.3 Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. If water-insoluble, contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in containers for disposal according to local regulations.

## **Section 7. Handling and storage**

### 7.1 Precautions for safe handling

**Protective measure**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

**7.2 Conditions for safe storage, including incompatibilities**

Comply with applicable regulations. Keep only in the original container in a cool, well ventilated area away from direct sunlight. Separate from acids. Keep container tightly closed and sealed until ready for use.

**Section 8. Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limits**

Glutaraldehyde US ACGIH Ceiling 0.05 ppm  
OSHA PEL 1989 Ceiling 0.2 ppm, 0.8 mg/m<sup>3</sup>

**Appropriate engineering controls**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**8.2 Exposure controls****Eye/face protection**

Wear chemical safety goggles. When transferring material, wear face-shield in addition to chemical safety goggles.

**Hand protection**

Chemical-resistant gloves: nitrile or butyl rubber.

**Skin protection**

Wear long sleeves and chemical resistant apron to prevent repeated or prolonged skin exposure.

**Respiratory protection**

Wear a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

**Section 9. Physical and chemical properties**

Physical state : Liquid  
Color : Colorless  
Odor : Fruity, medicinal  
pH : 3.1 to 4.5  
Melting/freezing point : -0.4 °F  
Boiling point : 212.9 °F

Flash point	: Closed cup: >212°F
Evaporation rate	: No data available (butyl acetate = 1)
Flammability	: Slightly flammable in the presence of open flames, sparks and static discharge and heat.
Lower and upper explosive limits	: No data available
Vapor pressure	: 17.2 kPa (129.3mm Hg) @ 54.4°C
Vapor density	: > 1 (Air = 1.0)
Relative density	: 1.13
Density	: 9.41 lbs/gal
Solubility in water	: Soluble
Partition coefficient n-octanol/water	: Not available
Auto-ignition temp.	: Not available
Decomposition temp.	: Not available
Viscosity	: Dynamic: 26.74 cP
VOC	: Not available
Pour Point	: 10.4°F

## Section 10. Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

No specific data.

### 10.5 Incompatible materials

Oxidizing materials, acids and alkalis.

### 10.6 Hazardous decomposition products

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

## Section 11. Toxicological Information

### Information on toxicological effects

#### Toxicological Data:

#### Acute Toxicity

Ingredient	Endpoint	Species	Dose	Exposure
Glutaraldehyde	LD50 Oral	Rat	134 mg/kg	-
DSC Greencide	LC50 Inhalation	Rat	>27 ppm	4 hours
DSC Greencide	LD50 Dermal	Rabbit male	1749 mg/kg	-

#### Irritation/Corrosion

No applicable toxicity data

#### Sensitization

No applicable toxicity data

#### Mutagenicity

No applicable toxicity data

#### Reproductive toxicity

No applicable toxicity data

**Teratogenicity**

No applicable toxicity data

**Specific target organ toxicity (single exposure)**

<b>Ingredient</b>	<b>Category</b>	<b>Route of exposure</b>	<b>Target organs</b>
Glutaraldehyde	Category 3	Not applicable	Respiratory tract irritation

**Delayed and immediate effects and also chronic effects from short and long term exposure****Short term exposure:** Not available**Potential chronic health effects:** Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.**Acute toxicity estimates**

Oral: ATE Value 268 mg/kg

Inhalation: ATE Value 6 mg/L

**Section 12. Ecological information****Toxicity**

<b>Ingredient</b>	<b>Result</b>	<b>Exposure</b>	<b>Species</b>
Glutaraldehyde	Acute EC50 0.31 ppm Fresh water	96 hours	Algae
	Acute EC50 0.75 ppm Fresh water	48 hours	Daphnia
	Acute LC50 5.4 ppm Fresh water	96 hours	Fish
	Chronic NOEC 3.41 ppm	97 days	Fish

**Persistence and degradability**

Not available

**Section 13. Disposal considerations****Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

**DOT Transport Information:** UN 2922, Corrosive Liquid, Toxic, N.O.S. (Glutaraldehyde) 8, (6.1) PGII

**Marine Pollutant** (Glutaraldehyde)

**Labels** (corrosive, poison, marine pollutant)

**IMDG** Emergency schedules F-A S-B

## Section 15. Regulatory information

**Toxic Substances Control Act (TCSA):** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**CERCLA RQ-40 CFR 302.4(a)**

Component

None

CERCLA RQ (lbs)

**SARA 302 Components-40 CFR 355 Appendix A**

Component

None

TPQ(Threshold Planning Quantity) (lbs)

**Section 311/312 Hazard Class-40 CFR 370.2**

**Immediate** (X)

**Delayed** ( )

**Fire** ( )

**Reactive** ( )

**Sudden Release of Pressure** ( )

**SARA 313-40 CFR 372.65**

Component

None

CAS Number

%(by weight)

## Section 16. Other information

WE CANNOT ANTICIPATE ALL CONDITIONS UNDER WHICH THIS INFORMATION AND OUR PRODUCTS, OR THE PRODUCTS OF OTHER MANUFACTURERS IN COMBINATION WITH OUR PRODUCTS MAY BE USED. WE ACCEPT NO RESPONSIBILITY FOR RESULTS OBTAINED BY THE APPLICATION OF THIS INFORMATION OR THE SAFETY AND SUITABILITY OF OUR PRODUCTS, EITHER ALONE OR IN COMBINATION WITH OTHER PRODUCTS. USERS ARE ADVISED TO MAKE THEIR OWN TESTS TO DETERMINE THE SAFETY AND SUITABILITY OF EACH PRODUCT OR PRODUCT COMBINATION FOR THEIR OWN PURPOSES. UNLESS OTHERWISE OBTAINED IN WRITING, WE SELL THE PRODUCTS WITHOUT WARRANTY, AND BUYERS AND USERS ASSUME ALL RESPONSIBILITY AND LIABILITY FOR LOSS OR DAMAGE ARISING FROM HANDLING AND USE OF OUR PRODUCTS, WHETHER USED ALONE OR IN COMBINATION WITH OTHER PRODUCTS.