

# MATERIAL SAFETY DATA SHEET (MSDS)

## Ster-Cid®

(A liquid chemical disinfectant solely for use with the SteriMed Infectious Medical Waste Treatment System)

### Producer

CID LINES NV/SA  
Waterpoorstraat, 2  
B-8900 Ieper Belgique-Belgie,  
Belgium  
Phone: +32 57 21 78 77

### Responsible for Distribution

M.C.M. Environmental Technologies 10 Forest Avenue, Suite 220 Paramus, NJ 07652 Phone: 201 342-1222	Henry Schein 1001 Nolen Dr. Grapevine, TX 76051 Phone: 817 416-2918	Fresenius Medical Care 920 Winter Street Waltham, MA 02451 Phone 781 699-9156	GMS Marketing 191 Hempstead Turnpike West Hempstead, NY. 11552 Phone: 800 783-7463
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Date : Revised , June 18, 2010

Version: A.6

Supersedes: Version A.5

### 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Company:	See distributor names above
Commercial Name:	<b>Ster-Cid®</b>
Type of Product:	<b>DISINFECTANT:</b> Antimicrobial solely for use in automatic equipment for medical waste treatment.
Identification of Product:	Liquid.
Use:	Solely for use with SteriMed Senior and Junior Infectious Medical Waste Treatment Equipment. See SteriMed product operating manuals for detailed information.
EPA FIFRA Use Category:	General Use
Responsibility for preparation of this MSDS:	<b>M.C.M. Environmental Technologies Inc.</b> (see above) USA  <b>M.C.M. Environmental Technologies Ltd.</b> Moledet M.P. Gilboa 19130 Israel
Telephone number in case of emergency:	Infotrac 1-800-535-5053

### 2. INFORMATION ON INGREDIENTS

*This product is considered to be hazardous and contains hazardous components.*

Substance Name:	Value(s)	CAS nr/EINECS nr/EC index	Symbol (s)	R-Phrase (s)
Alkyldimethylbenzylammoniumchloride	170.6 g/l	68424-85-1/ 270-325-2/ ----	C	21/22-34
Isopropanol	146.3 g/l	000067-69-0 / 200-661-7 / 603-117-00-0	F XI	11-36-67
Glutaraldehyde	107.3 g/l	000111-30-8 / 203-856-5 / 605-022-00-X	T N	23/25-34-42/43-50
Didecyldimethylammonium chloride	78 g/l	007173-51-5 / 230-525-2 / 612-131-00-6	C	22-34
Pine Oil	20 g/l	---- / ---- / ----		
Dye brown (CI solvent brown 42)		---- / ---- / ----		



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<b>3. HAZARDS IDENTIFICATION</b>	
Risk Phrases:	Corrosive. Harmful by inhalation and if swallowed.
Adverse human health effects:	May cause sensitization by inhalation and skin contact.
Primary route of exposure:	Vapors inhalation. Skin and eye contact.
Symptoms relating to use:	
- Inhalation	Cough. Sore throat. Corrosive to respiratory system
- Skin contact	Redness, pain. Causes burns.
- Eye contact	Redness, pain. Blurred vision. Burning sensation. Risk of damage to eyes.
- Ingestion	Abdominal pain, nausea. Burning sensation.

<b>4. ACCIDENTAL RELEASE MEASURES</b>	
Personal precautions:	Equip cleanup crew with proper protection. Respiratory protection equipment may be necessary.
Environmental precautions:	Check with the local wastewater authorities for concentrations allowed to be disposed to the drain.
After spillage and/or leakage	Clean up any spills as soon as possible, using an absorbent material to collect it. Dilute residues and flush. Recover the cleaning water for disposal.

<b>5. HANDLING &amp; STORAGE</b>	
Precautions in handling and storage:	Handle in accordance with good industrial hygiene and safety procedures.
Storage:	Store in dry, well ventilated area. Protect from freezing. Keep at temperature not exceeding 50°C
Handling:	Where contact with eyes or skin is likely, wear suitable protection. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

<b>6. EXPOSURE CONTROLS / PERSONAL PROTECTION</b>	
Personal protection:	
- Respiratory protection	Approved dust or mist respirator should be used if airborne particles are generated when handling this material.
- Hand protection	Glutaraldehyde fluid impervious gloves.
- Skin protection	If skin contact or contamination of clothing is likely, fluid impervious protective clothing should be worn.
- Eye protection	Eye protection should only be necessary where liquid could be splashed or sprayed.
- Ingestion	When using, do not eat, drink or smoke.
Industrial Hygiene:	Provide local exhaust or general room ventilation to minimize dust and/or vapor concentrations.

<b>7. PHYSICAL &amp; CHEMICAL PROPERTIES</b>	
Physical state:	Liquid.
Color:	Light Brown
Odor:	Aldehyde.
pH value in distilled water:	ca. 7 (1%)
Freezing point:	-10°C
Initial boiling point:	105°C
Density:	ca. 0.984 kg/l
Viscosity:	N/A
Solubility in water:	Complete.
Flash point [°C]	>100°C
Auto-ignition temperature [°C]	N/A



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<b>8. STABILITY &amp; REACTIVITY</b>	
Hazardous decomposition products:	No data available.
Hazardous reactions:	Avoid contact with: Strong acids. Strong oxidizing agents.
Hazardous properties:	None under normal conditions.

<b>9. TOXICOLOGICAL INFORMATION</b>	
Rat oral LD50 [mg/kg]:	1070
Rabbit dermal LD50 [mg/kg]:	No data available.
Rat inhalation LC50 [mg/kg]:	No data available.
Rat inhalation LC50 [mg/l/4h]	No data available.

<b>10. ECOLOGICAL INFORMATION</b>	
LC 50-96 Hour – fish [mg/l]:	No data available.
48 Hour-EC50-Daphnia magna [mg/l]:	No data available.
IC50 72h Algae:	No data available.
COD-value [mg/l]:	No data available.
BOD5-value [mg/l]:	No data available.
Biodegradable [%]:	MORE THAN 90% BIODEGRADABLE All available ecological data have been taken into account for the development of the hazard and precautionary information contained in this Safety Data Sheet.

<b>11. DISPOSAL CONSIDERATIONS</b>	
Disposal:	Hazardous waste. Dispose in safe manner in accordance with local/national regulations.

<b>12. ECOLOGICAL INFORMATION</b>	
Hazard label (s)	 Corrosive.
Proper shipping name:	Corrosive liquid, n.o.s. (benzalkoniumchloride, glutaraldehyde)
UN No.:	1760
ADR/RID:	Class 8,66c
IMO-IMDG code:	Class 8
EMS-Nr:	8-15
UN Packing group:	III

<b>13. REGULATORY INFORMATION</b>	
Symbol (s)	 Corrosive.
R Phrases (s)	R 20/21/22 - Harmful by inhalation, in contact with skin and if swallowed. R34 - Causes burns. R40 – Limited evidence of a carcinogenic effect. R42/43 – May cause sensitization by inhalation and skin contact.
S Phrase (s)	S02 – Keep out of reach of children.



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	<p>S13 – Keep away from food, drink and animal feeding stuffs.  S20/21 – When using, do not eat, drink or smoke.  S23 – Do not breathe gas/fumes/vapor/spray.  S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  S28 – After contact with skin, wash immediately with plenty of water.  S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.  S42 – During fumigation/spraying wear suitable respiratory equipment. (aldehyde)  S45 – In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).  S51 – Use only in well ventilated areas.</p>
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<b>14. OTHER INFORMATION</b>	
Registration Information:	US EPA FIFRA Registration # 71814-1; US EPA Est. No: #71355-BEL-1

The contents and format of this MSDS are in accordance with EEC Commission Directive 93/112/EEC.

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