

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Liquid
Product name. : VIROCID
Product code : A93
Product group : Disinfectants

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Industrial use
Use of the substance/mixture : See product bulletin for detailed information.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

CID LINES NV
Waterpoortstraat, 2
B-8900 Ieper - Belgique
T + 32 57 21 78 77 - F +32 57 21 78 79
sds@cidlines.com - <http://www.cidlines.com>

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
Worldwide	www.who.int/ipcs/poisons/centre/directory/en		

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Xn; R20/21/22
Xn; R42
C; R34
Xi; R43
N; R50
R10

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

VIROCID

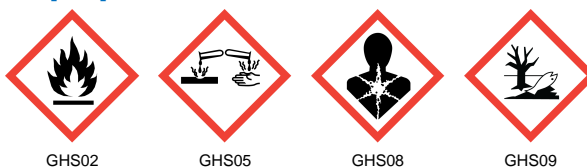
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according to Regulation (EC) No. 453/2010

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazard statements (CLP) :

H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H400 - Very toxic to aquatic life
H312 - Harmful in contact with skin

Precautionary statements (CLP) :

P280 - Wear protective gloves/protective clothing/eye protection/face protection
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
P305 - 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 or doctor/physician Specific treatment.
P301+P330+P331+P310+P321: IF SWALLOWED : Rinse mouth Do NOT induce vomiting Immediately call a POISON CENTER or doctor/physician Specific treatment.
P302: IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse If skin irritation occurs: Get medical advice/attention Specific treatment.

Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols :



C - Corrosive

N - Dangerous for the environment

R-phrases :

R10 - Flammable.
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.
R34 - Causes burns.
R42/43 - May cause sensitization by inhalation and skin contact.
R50 - Very toxic to aquatic organisms.

S-phrases :

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
S60 - This material and its container must be disposed of as hazardous waste.
S51 - Use only in well-ventilated areas.
S2 - Keep out of the reach of children.
S13 - Keep away from food, drink and animal feedingstuffs.
S20/21 - When using do not eat, drink or smoke.
S23 - Do not breathe spray
S24 - Avoid contact with skin.
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.
S35 - This material and its container must be disposed of in a safe way.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S38 - In case of insufficient ventilation, wear suitable respiratory equipment.
S42 - During fumigation/spraying wear suitable respiratory equipment (appropriate wording to be specified by the manufacturer).
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Alkyldimethylbenzylammoniumchloride	(CAS No.)68424-85-1 (EC no)270-325-2	15 - 30	Xn; R21/22 C; R34 N; R50
Didecyldimethylammonium chloride	(CAS No.)7173-51-5 (EC no)230-525-2 (EC index no)612-131-00-6	5 - 15	Xn; R22 C; R34
Glutaraldehyde	(CAS No.)111-30-8 (EC no)203-856-5 (EC index no)605-022-00-X (REACH-no)01-2119455549-26	5 - 15	T; R23/25 Xn; R42 C; R34 Xi; R43 N; R50
Propan-2-ol	(CAS No.)67-63-0 (EC no)603-117-00-0 (EC index no)200-661-7 (REACH-no)01-2119457558-25	5 - 15	F; R11 Xi; R36 R67

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Alkyldimethylbenzylammoniumchloride	(CAS No.)68424-85-1 (EC no)270-325-2	15 - 30	Skin Corr. 1B, H314 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400
Didecyldimethylammonium chloride	(CAS No.)7173-51-5 (EC no)230-525-2 (EC index no)612-131-00-6	5 - 15	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400
Glutaraldehyde	(CAS No.)111-30-8 (EC no)203-856-5 (EC index no)605-022-00-X (REACH-no)01-2119455549-26	5 - 15	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Acute 1, H400
Propan-2-ol	(CAS No.)67-63-0 (EC no)603-117-00-0 (EC index no)200-661-7 (REACH-no)01-2119457558-25	5 - 15	Eye Irrit. 2, H319 STOT SE 3, H336

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Assure fresh air breathing. Obtain medical attention if breathing difficulty persists.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if irritation develops.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Contact ophthalmologist immediately.
- First-aid measures after ingestion : Rinse mouth. Do not induce vomiting because of corrosive effects. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : All extinguishing media can be used.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not combustible.
- Reactivity : None under normal conditions.

5.3. Advice for firefighters

- Precautionary measures fire : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Equip cleanup crew with proper protection. Respiratory protection equipment may be necessary.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Dilute residues and flush. Recover the cleaning water for later disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Where contact with eyes or skin is likely, wear suitable protection. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, cool, well-ventilated area. Protect from freezing. Keep at temperature not exceeding 50 °C.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Glutaraldehyde (111-30-8)		
EU	IOELV TWA (mg/m ³)	20 mg/m ³
EU	IOELV TWA (ppm)	0,2 ppm
United Kingdom	WEL TWA (mg/m ³)	15min - 8h 0,2 mg/m ³
United Kingdom	WEL TWA (ppm)	15min - 8h 0,05 ppm

Propan-2-ol (67-63-0)		
EU	IOELV TWA (mg/m ³)	983 mg/m ³
EU	IOELV TWA (ppm)	400 ppm

8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

Personal protective equipment : Gloves. Face shield. Protective clothing. Insufficient ventilation: wear respiratory protection. Protective goggles.



Hand protection : Gloves. chemical resistant PVC gloves (to European standard EN 374 or equivalent).

Eye protection : Use eye protection to EN 166, designed to protect against liquid splashes. Eye protection should only be necessary where liquid could be splashed or sprayed.

Skin and body protection : Protective clothing compliant with EN 943 part 2. If skin contact or contamination of clothing is likely, protective clothing should be worn.

Respiratory protection : Approved dust or mist respirator should be used if airborne particles are generated when handling this material. Full-/half-/quarter-face masks (DIN EN 136/140).

Other information : When using, do not eat, drink or smoke. Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Clear. Brown.
Odour	: Aldehyde.
Odour threshold	: No data available
pH	: ca 4
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: -10 °C
Boiling point	: 93 °C
Flash point	: 60 °C
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: ca 1,015
Solubility	: Complete.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

Avoid contact with :Strong acids.Strong oxidizing agents. None under normal conditions.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful by inhalation, in contact with skin and if swallowed.

VIROCID	
LD50 oral rat	ca 1070 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Irritation	: Corrosive to eyes, respiratory system and skin. pH: ca 4
Corrosivity	: Corrosive to eyes, respiratory system and skin. Harmful if swallowed. Harmful by inhalation. pH: ca 4
Sensitisation	: May cause sensitization by inhalation and skin contact.
Repeated dose toxicity	: Not applicable

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Carcinogenicity : No data available
Mutagenicity : No data available.
Toxicity for reproduction : No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : This product contains hazardous components for the environment. Biodegradable.

VIROCID

LC50 fishes 1	1 - 10 mg/l 96h
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EC50 Daphnia 1	1 - 10 mg/l 48h
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12.2. Persistence and degradability

Propan-2-ol (67-63-0)

Biodegradation	95 %
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12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : This product contains hazardous components for the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Dispose of this material and its container at hazardous or special waste collection point. Hazardous waste due to toxicity. Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No. : 1760

14.2. UN proper shipping name

Proper Shipping Name : CORROSIVE LIQUID, N.O.S.

Transport document description : UN 1760 CORROSIVE LIQUID, N.O.S. (Alkyldimethylbenzylammoniumchloride Glutaraldehyde), 8, III, (E)

14.3. Transport hazard class(es)

Class (UN) : 8

Hazard labels (UN) : 8



14.4. Packing group

Packing group (UN) : III

14.5. Environmental hazards

Dangerous for the environment :



Other information : Clean up even minor leaks or spills if possible without unnecessary risk.

14.6. Special precautions for user

Special transport precautions : The driver shall not attempt to deal with any fire of the load. No naked lights. No smoking. Keep public away from danger area. NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

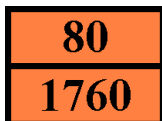
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14.6.1. Overland transport

Hazard identification number (Kemler No.) : 80
Classification code (ADR) : C9
Orange plates :



Tunnel restriction code : E
LQ : LQ07
Excepted quantities (ADR) : E1

14.6.2. Transport by sea

Ship Safety Act : Corrosive substances
Port Regulation Law : Corrosive substances
MFAG-No. : 154

14.6.3. Air transport

Instruction "cargo" (ICAO) : Packaging instructions cargo :820
Instruction "passenger" (ICAO) : Packaging instructions passenger:818
Civil Aeronautics Law : Corrosive substances

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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
Other regulations, restrictions and prohibition regulations : Ensure all national/local regulations are observed.

15.1.2. National regulations

Water hazard class (WGK) : 2 - hazardous to water

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Flam. Liq. 3	H226
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Inhalation:vapour)	H332
Skin Corr. 1B	H314
Resp. Sens. 1	H334
Skin Sens. 1	H317
Aquatic Acute 1	H400

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Full text of R-, H- and EUH-phrases::

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Resp. Sens. 1	Respiratory sensitisation Category 1
Skin Corr. 1B	skin corrosion/irritation Category 1B
Skin Sens. 1	Skin sensitisation Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
R10	Flammable.
R11	Highly flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R23/25	Toxic by inhalation and if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R42	May cause sensitization by inhalation.
R43	May cause sensitisation by skin contact.
R50	Very toxic to aquatic organisms.
R67	Vapours may cause drowsiness and dizziness.
C	Corrosive
F	Highly flammable
N	Dangerous for the environment
T	Toxic
Xi	Irritant
Xn	Harmful

SDS EU CLP DPD

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.