

SECTION 1: Product and Company identification**1.1. Product identifier**

Product form : Liquid
Product name: Virocid®
Product code : 4
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	Organisation/Company	Address	Emergency number
Worldwide	www.who.int/ipcs/poisons/centre/directory/en		

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Labelling according to OSHA 29 CFR 1910.1200

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

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to OSHA 29 CFR 1910.1200

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Hazard pictograms (CLP)



GHS02

GHS05

GHS08

GHS09

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 victim 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.
P302+P352+P312+P321 : IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. 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.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification
Alkyldimethylbenzylammoniumchloride	(CAS No)68424-85-1 (EC no)270-325-2 (REACH-no)01-2119945987-15	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	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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

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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.

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

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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.

Eye protection

: Eye protection should only be necessary where liquid could be splashed or sprayed.

Skin and body protection

: 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.

Other information

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

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

: -13,5 °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

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10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Corrosive to eyes and skin.

Virocid®	
LD50 oral rat	ca 1070 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
ATE (oral)	500,000 mg/kg

Glutaraldehyde (111-30-8)

ATE (oral)	100,000 mg/kg
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Alkyldimethylbenzylammoniumchloride (68424-85-1)

ATE (oral)	500,000 mg/kg
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Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: ca 4

Serious eye damage/irritation : Eye damage, category 1, implicit
Corrosive to eyes.

pH: ca 4

Respiratory or skin sensitisation : May cause sensitization by inhalation and skin contact.

Germ cell mutagenicity : No data available

Carcinogenicity : No data available.

Reproductive toxicity : No data available.

Specific target organ toxicity (single exposure) : Data not validated

Specific target organ toxicity (repeated exposure) : No data available.

Aspiration hazard : 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
EC50 Daphnia 1	1 - 10 mg/l 48h

12.2. Persistence and degradability

Propan-2-ol (67-63-0)	
Biodegradation	95 %

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.

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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

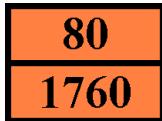
Special transport precautions : The driver shall not attempt to deal with any fire of the load. No naked lights. No smoking. Keep public away from danger area. NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

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 information, restriction and prohibition regulations : Ensure all national/local regulations are observed.

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15.1.2. National regulations

Water hazard class (WGK) : 3 - strongly hazardous to water

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Resp. Sens. 1	Sensitisation — Respiratory, category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Sensitisation — Skin, category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
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
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
R11	Highly flammable
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

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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