

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

1.1. Product identifier

Product form : Mixture
Trade name : Virocid™
Product code : K38
Product group : Disinfectant

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

1.2.1. Relevant identified uses

Main use category : Industrial/Professional use spec
Use of the substance/mixture : Broad Spectrum Disinfectant. Refer to product label for usage 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	Zamira Life Sciences Pty Ltd Suite 6, Princeton Court 3 13 Princeton Street, Kenmore, QLD, 4069, Australia T +61 7 3378 3780 info@zamira.com.sg
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1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Australia	Poisons Information Centre		13 11 26	
New Zealand	The National Poisons Centre	University of Otago, 2nd Floor, Adams Building, 18 Frederick Street, 9016 Dunedin	0800 764 766 0800 POISON	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
USA	American Association of Poison Control Centers		1-800-222-1222	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4	H302
Acute toxicity (dermal), Category 4	H312
Acute toxicity (inhalation:vapour) Category 4	H332
Skin corrosion/irritation, Category 1B	H314
Serious eye damage/eye irritation, Category 1	H318
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



Virocid™

Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

	GHS05	GHS07	GHS08	GHS09
Signal word (CLP)	: Danger			
Hazard statements (CLP)	: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled. 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. H410 - Very toxic to aquatic life with long lasting effects.			
Precautionary statements (CLP)	: P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302+P352 - IF ON SKIN: Wash with plenty of water/.... P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.			

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	(CAS-No.) 68424-85-1 (EC-No.) 270-325-2	15 - 30	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10)
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 Aquatic Chronic 2, H411
Glutaraldehyde	(CAS-No.) 111-30-8 (EC-No.) 203-856-5 (EC Index-No.) 605-022-00-X	5 - 15	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Propan-2-ol	(CAS-No.) 67-63-0 (EC-No.) 603-117-00-0 (EC Index-No.) 200-661-7	5 - 15	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Seek medical attention immediately.
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 advice (show the label where possible).
First-aid measures after eye contact	: Rinse immediately with plenty of water. Seek medical attention immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting because of corrosive effects. Take to hospital.

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

Symptoms/effects after inhalation	: Inhalation of vapour can cause breathing difficulties. Cough. Sore throat.
Symptoms/effects after skin contact	: Redness, pain. Causes severe skin burns and eye damage.
Symptoms/effects after eye contact	: Redness, pain. Blurred vision. Tears. Serious damage to eyes.

Virocid™

Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

Symptoms/effects after ingestion : Burning sensation. Cough. Cramps. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Swallowing a small quantity of this material will result in serious health hazard.

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

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : All extinguishing media allowed.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not combustible.

Explosion hazard : Not expected to be a fire/explosion hazard under normal conditions of use.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Corrosive vapours.

5.3. Advice for firefighters

Precautionary measures fire : Wear fire/flammable resistant/retardant clothing. Eliminate all ignition sources if safe to do so.

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Exercise caution when fighting any chemical fire. Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flammable resistant/retardant clothing. Heat resistant gloves.

Other information : On exposure to high temperature, may decompose, releasing toxic gases.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Stop leak if safe to do so. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

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

For containment : Stop leak without risks if possible. Collect spillage. Use suitable disposal containers.

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.

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 : When handling product, avoid contact with skin and eyes. Wear personal protective equipment. Do not breathe vapour/aerosol. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking 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 : Keep only in the original container in a cool well ventilated place. Do not store in corrodable metal. Keep container closed when not in use. Protect from freezing.

Special rules on packaging : Keep only in original container.

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
Germany	TRGS 910 Acceptable concentration notes	
United Kingdom	Local name	Glutaraldehyde

Virocid™

Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

Glutaraldehyde (111-30-8)		
United Kingdom	WEL TWA (mg/m ³)	0.2 mg/m ³
United Kingdom	WEL TWA (ppm)	0.05 ppm
United Kingdom	WEL STEL (mg/m ³)	0.2 mg/m ³
United Kingdom	WEL STEL (ppm)	0.05 ppm
United Kingdom	Remark (WEL)	Sen (Capable of causing occupational asthma)
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE

Propan-2-ol (67-63-0)		
EU	IOELV TWA (mg/m ³)	983 mg/m ³
EU	IOELV TWA (ppm)	400 ppm
Germany	TRGS 910 Acceptable concentration notes	

Didecyldimethylammonium chloride (7173-51-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	8.6 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	18.2 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.002 mg/l Assessment factor: 10
PNEC aqua (marine water)	0.0002 mg/l Assessment factor: 100
PNEC aqua (intermittent, freshwater)	0.00029 mg/l Assessment factor: 100
PNEC (Sediment)	
PNEC sediment (freshwater)	2.82 mg/kg dwt Assessment factor: 1
PNEC sediment (marine water)	0.28 mg/kg dwt Assessment factor: 10
PNEC (Soil)	
PNEC soil	1.4 mg/kg dwt Assessment factor: 50
PNEC (STP)	
PNEC sewage treatment plant	0.595 mg/l Assessment factor: 10

Glutaraldehyde (111-30-8)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	0.5 mg/m ³
Long-term - local effects, inhalation	0.25 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.0025 mg/l Assessment factor: 10
PNEC aqua (marine water)	0.00025 mg/l Assessment factor: 100
PNEC aqua (intermittent, freshwater)	0.006 mg/l Assessment factor: 100
PNEC (Sediment)	
PNEC sediment (freshwater)	0.527 mg/kg dwt
PNEC sediment (marine water)	0.0527 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.03 mg/kg dwt Assessment factor: 50
PNEC (STP)	
PNEC sewage treatment plant	0.8 mg/l Assessment factor: 100

Propan-2-ol (67-63-0)	
PNEC (Water)	
PNEC aqua (freshwater)	140.9 mg/l (Assessment factor: 1)

Virocid™

Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

Propan-2-ol (67-63-0)	
PNEC aqua (marine water)	140.9 mg/l (Assessment factor: 1)
PNEC aqua (intermittent, freshwater)	140.9 mg/l (Assessment factor: 1)
PNEC (Sediment)	
PNEC sediment (freshwater)	552 mg/kg dwt
PNEC sediment (marine water)	552 mg/kg dwt
PNEC (Soil)	
PNEC soil	28 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	0.00016 kg/kg food (Assessment factor: 30)
PNEC (STP)	
PNEC sewage treatment plant	2251 mg/l (Assessment factor: 1)
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	< mg/kg bodyweight/day
Long-term - systemic effects, dermal	5.7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3.96 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	3.4 mg/kg bodyweight/day
Long-term - systemic effects, dermal	3.4 mg/kg bodyweight/day
Long-term - local effects, inhalation	1.64 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.0009 mg/l
PNEC aqua (marine water)	0.00096 mg/l
PNEC aqua (intermittent, freshwater)	0.00016 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	12.27 mg/kg dwt
PNEC sediment (marine water)	13.09 mg/kg dwt
PNEC (Soil)	
PNEC soil	7 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.4 mg/l

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

Materials for protective clothing:					
Condition		Material		Standard	
Good resistance:				EN14605:2005+A1:2009	
Hand protection:					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Polyvinylchloride (PVC)	6 (> 480 minutes)	0.5	2 (< 1.5)	EN ISO 374

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Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

Eye protection:			
Type	Use	Characteristics	Standard
Safety glasses, Safety goggles, Face shield	Droplet	clear, Plastic	EN 166

Skin and body protection:	
Wear suitable protective clothing	
Type	Standard
protective clothing	EN14605:2005+A1:2009

Respiratory protection:			
Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material			
Device	Filter type	Condition	Standard
Full face mask	ABEK-P3	Protection for Liquid particles, Vapour protection, Long term exposure	EN 132, EN 140

Personal protective equipment symbol(s):



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	: Aldehydes.
Odour threshold	: No data available
pH	: ≈ 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 Does not sustain combustion per ASTM D4206
Auto-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	: No data available
Density	: ≈ 1.015 kg/l
Solubility	: Water: 100 %
Log Pow	: 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

Additional information	: No hazardous good class 3 according UN Manual of Tests and Criteria, part III, section 32.2.5 (combustibility is not sustained).
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Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Harmful in contact with skin.
Acute toxicity (inhalation) : Harmful if inhaled.

Virocid™	
LD50 oral rat	ca 1070 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
ATE CLP (vapours)	11 mg/l/4h

Didecyldimethylammonium chloride (7173-51-5)

LD50 oral	238 mg/kg
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Glutaraldehyde (111-30-8)

LD50 oral	77 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	0.28 mg/l/4h

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

LD50 oral rat	4700 - 5500 mg/kg
LC50 inhalation rat (mg/l)	46 - 73 mg/l/4h

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

LD50 oral	344 mg/kg
LD50 dermal	300 mg/kg

Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: ≈ 4

Serious eye damage/irritation : Causes serious eye damage.
pH: ≈ 4

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Very toxic to aquatic life.
Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

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Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

Virocid™	
LC50 fish 1	1 - 10 mg/l 96h
EC50 Daphnia 1	1 - 10 mg/l 48h

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
LC50 other aquatic organisms 1	0.03 mg/l Algae

12.2. Persistence and degradability

Virocid™	
Persistence and degradability	The surfactant contained in this preparation complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Biodegradable.

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

12.3. Bioaccumulative potential

Didecyldimethylammonium chloride (7173-51-5)	
Log Kow	2.59

Glutaraldehyde (111-30-8)	
Log Kow	-0.36

Propan-2-ol (67-63-0)	
Log Kow	0.05

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
Log Kow	2.96

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 in a safe manner in accordance with local/national regulations.
Waste treatment methods	: 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.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: When totally empty, containers are recyclable like any other packing. Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.
European List of Waste (LoW) code	: 07 06 01* - aqueous washing liquids and mother liquors

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: UN 1760
UN-No. (IMDG)	: UN 1760
UN-No. (IATA)	: UN 1760
UN-No. (ADN)	: UN 1760
UN-No. (RID)	: UN 1760

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: CORROSIVE LIQUID, N.O.S. (Alkyldimethylbenzylammoniumchloride Glutaraldehyde)
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, N.O.S. (Alkyldimethylbenzylammoniumchloride Glutaraldehyde)

Virocid™

Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

Proper Shipping Name (IATA)	: CORROSIVE LIQUID, N.O.S. (Alkyldimethylbenzylammoniumchloride Glutaraldehyde)
Proper Shipping Name (ADN)	: CORROSIVE LIQUID, N.O.S. (Alkyldimethylbenzylammoniumchloride Glutaraldehyde)
Proper Shipping Name (RID)	: CORROSIVE LIQUID, N.O.S. (Alkyldimethylbenzylammoniumchloride Glutaraldehyde)
Transport document description (ADR)	: UN 1760 CORROSIVE LIQUID, N.O.S. (Alkyldimethylbenzylammoniumchloride Glutaraldehyde), 8, III, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1760 CORROSIVE LIQUID, N.O.S. (Alkyldimethylbenzylammoniumchloride Glutaraldehyde), 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 1760 CORROSIVE LIQUID, N.O.S. (Alkyldimethylbenzylammoniumchloride Glutaraldehyde), 8, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 1760 CORROSIVE LIQUID, N.O.S. (Alkyldimethylbenzylammoniumchloride Glutaraldehyde), 8, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 1760 CORROSIVE LIQUID, N.O.S. (Alkyldimethylbenzylammoniumchloride Glutaraldehyde), 8, III, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



ADN

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8



RID

Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8



14.4. Packing group

Packing group (ADR) : III

Virocid™

Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

Packing group (IMDG)	: III
Packing group (IATA)	: III
Packing group (ADN)	: III
Packing group (RID)	: III

14.5. Environmental hazards

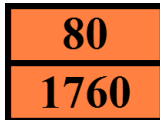
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: Clean up even minor leaks or spills, if possible, without unnecessary risk

14.6. Special precautions for user

Special transport precautions	: Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency, No naked flames, sparks, and do not smoke, Keep public away from danger area, NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY
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Overland transport

Transport regulations (ADR)	: No hazardous good class 3 according UN Manual of Tests and Criteria, part III, section 32.2.5 (combustibility is not sustained).
Classification code (ADR)	: C9
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1, TP28
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	:



Tunnel restriction code (ADR)	: E
EAC code	: 2X
APP code	: B

Transport by sea

Special provisions (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
MFAG-No	: 154

Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3

Virocid™

Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

ERG code (IATA)	: 8L
Inland waterway transport	
Classification code (ADN)	: C9
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0

Rail transport

Classification code (RID)	: C9
Special provisions (RID)	: 274
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1, TP28
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80

14.7. Transport in bulk according to Annex II of Marpol 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Substances subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals: Didecyltrimethylammonium chloride (7173-51-5) (CAS Number).

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

Other information, restriction and prohibition regulations : Ensure all national/local regulations are observed. PIC Regulation EU (649/2012) - Export and Import of hazardous chemicals. {0} is subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Other information : **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:

Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
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Virocid™

Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
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 — Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDSCLP3

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.