

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

est 2020.solutions

Version 1.0a  
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## ANTIVIRUS

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

#### 1.1 Product identifier

Product name : Anti Virus

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

Use of the Substance/Mixture : Biocidal product

#### 1.3 Details of the supplier of the safety data sheet

Company : est 2020.solutions  
e-mail address : admin@est2020.solutions  
Responsible/issuing person : Head Administrator

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### SECTION 2: Hazards identification


#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1	H290: May be corrosive to metals.
Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : 

Signage word : Danger

Hazard statements : H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H400 Very toxic to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

P260 Do not breathe mist or vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

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/doctor.

Hazardous components which must be listed on the label:

2-Aminoethanol

Didecyldimethylammonium chloride

Potassium carbonate

Propan-2-ol

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

No hazards to be specially mentioned.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Hazardous components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-Aminoethanol	141-43-5	Acute Tox. 4; H302	> 5 - <= 8

	205-483-3 603-030-00-8 01-2119486455-28-XXXX	Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	
Didecyldimethylammonium chloride	7173-51-5 230-525-2 612-131-00-6 01-2119945987-15-XXXX	Acute Tox. 3; H301 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 5 - < 8
Potassium carbonate	584-08-7 209-529-3 01-2119532646-36-XXXX	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	>= 5 - < 10
Alcohols (C16-18 ) ethoxylated	68439-49-6	Eye Irrit. 2; H319	>= 5 - < 10
Propan-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558-25-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 1 - < 3
Substances with a workplace exposure limit			

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If breathing is irregular or stopped, administer artificial respiration.  
Call a physician or poison control centre immediately.  
Keep respiratory tract clear.
- In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.  
Take off contaminated clothing and shoes immediately.  
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
Take victim immediately to hospital.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
Continue rinsing eyes during transport to hospital.  
Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.

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

Symptoms : No information available.

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

Treatment : Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Dry chemical

Unsuitable extinguishing media : High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Heating or fire can release toxic gas.  
Do not allow run-off from fire fighting to enter drains or water courses.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Further information : Use water spray to cool unopened containers.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Use respirator when performing operations involving potential exposure to vapour of the product.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

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

Methods for cleaning up : Neutralise with acid.  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

#### 6.4 Reference to other sections

For personal protection see section 8.

For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Take precautionary measures against static discharges.

Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards. To maintain product quality, do not store in heat or direct sunlight.

Advice on common storage : Do not store near acids.

Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No information available.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-Aminoethanol	141-43-5	TWA	1 ppm 2,5 mg/m <sup>3</sup>	EH40 WEL
		STEL	3 ppm 7,6 mg/m <sup>3</sup>	EH40 WEL
				EH40 WEL
				ECTLV

		TWA	1 ppm 2,5 mg/m <sup>3</sup>	ECTLV
		STEL	3 ppm 7,6 mg/m <sup>3</sup>	ECTLV
Propan-2-ol	67-63-0	TWA	400 ppm 999 mg/m <sup>3</sup>	EH40 WEL
		STEL	500 ppm 1 250 mg/m <sup>3</sup>	EH40 WEL

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
2-Aminoethanol	Workers	Inhalation	Long-term local effects	3,3 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	2 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	3,75 mg/kg
	Consumers	Dermal	Long-term systemic effects	0,24 mg/kg
Potassium carbonate	Workers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>
Propan-2-ol	Workers	Dermal	Long-term systemic effects	888 mg/kg
	Workers	Inhalation	Long-term systemic effects	500 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	319 mg/kg
	Consumers	Inhalation	Long-term systemic effects	89 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	26 mg/kg

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
2-Aminoethanol	Fresh water	0,085 mg/l
	Soil	0,0367 mg/kg
	Marine sediment	0,0434 mg/kg
	Fresh water sediment	0,434 mg/kg
	Sewage treatment plant	100 mg/l
	Intermittent use/release	0,028 mg/l
Propan-2-ol	Marine water	0,0085 mg/l
	Fresh water	140,9 mg/l
	Intermittent use/release	140,9 mg/l
	Marine water	140,9 mg/l
	Sewage treatment plant	2251 mg/l
	Fresh water sediment	552 mg/kg
	Marine sediment	552 mg/kg
	Soil	28 mg/kg

**8.2 Exposure controls****Personal protective equipment**

Eye protection : Safety glasses with side-shields conforming to EN166  
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Material	:	Nitrile rubber
Remarks	:	Wear protective gloves. Break through time : > 480 min The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Rubber or plastic apron Rubber or plastic boots
Respiratory protection	:	In the case of vapour formation use a respirator with an approved filter. Respirator with ABEK filter.  Respirator with a vapour filter (EN 141)

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	light yellow
Odour	:	characteristic
Odour Threshold	:	no data available
pH	:	12,9 (20 °C)
Melting point/range	:	no data available
Boiling point/boiling range	:	no data available
Flash point	:	68 °C Method: closed cup GLP: yes
Evaporation rate	:	no data available
Flammability (solid, gas)	:	no data available
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	23 hPa (20 °C)
Relative vapour density	:	no data available
Relative density	:	1,05
Density	:	1,05 g/cm <sup>3</sup> (ca. 20 °C) Method: OECD Test Guideline 109 GLP: yes

Solubility(ies)	
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Decomposition temperature	: no data available
Viscosity	
Viscosity, dynamic	: 30 mPa.s (20 °C)
Viscosity, kinematic	: 22,3 mm <sup>2</sup> /s (ca. 20 °C) Method: OECD Test Guideline 114 GLP: yes
	: 6,88 mm <sup>2</sup> /s (ca. 40 °C) Method: OECD Test Guideline 114 GLP: yes
Explosive properties	: Classification Code: Not explosive
Oxidizing properties	: no data available

## 9.2 Other information

Metal corrosion rate	: Corrosive to metals
Self-ignition	: not auto-flammable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	: Exothermic reaction with strong acids. Stable under normal conditions.
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### 10.4 Conditions to avoid

Conditions to avoid	: Heat
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### 10.5 Incompatible materials

Materials to avoid	: Aluminium  Strong acids and strong bases Oxidizing agents
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### 10.6 Hazardous decomposition products

No decomposition if used as directed.



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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity : Acute toxicity estimate: > 2 000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2 000 mg/kg  
Method: Calculation method

**Skin corrosion/irritation**

Assessment: Causes burns.  
Result: Corrosive after 3 minutes to 1 hour of exposure  
Remarks: Expert judgement

**Aspiration toxicity**

No aspiration toxicity classification

**Further information**

Remarks: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Remarks: Ingestion may cause nausea, vomiting, sore throat, stomach-ache and eventually lead to a perforation of the intestine.

**The following toxicological data refer to:****Didecyldimethylammonium chloride** (CAS-No.: 7173-51-5)**Acute toxicity**

Acute oral toxicity : LD50 (Rat): 238 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit): 3 342 mg/kg

**Skin corrosion/irritation**

Species: Rabbit  
Exposure time: 3 min  
Assessment: Causes burns.  
Method: OECD Test Guideline 404  
Result: Mild skin irritation  
GLP: yes

**Respiratory or skin sensitisation**

Test Type: Buehler Test  
 Species: Guinea pig  
 Assessment: Did not cause sensitisation on laboratory animals.  
 Method: US-EPA  
 Result: not sensitizing  
 GLP: yes

Test Type: Buehler Test  
 Species: Guinea pig  
 Method: OECD Test Guideline 406  
 Result: not sensitizing

**Germ cell mutagenicity**

Genotoxicity in vitro

: Test Type: Ames test  
 Species: Salmonella typhimurium  
 Metabolic activation: yes  
 Method: OECD Test Guideline 471  
 Result: negative  
 GLP: yes

: Test Type: Chromosome aberration test in vitro  
 Species: Chinese hamster ovary cells  
 Metabolic activation: yes  
 Result: negative  
 GLP: yes

: Test Type: gene mutation test  
 Species: Chinese hamster ovary cells  
 Metabolic activation: yes  
 Result: negative  
 GLP: yes

Genotoxicity in vivo

: Test Type: Chromosome aberration test in vivo  
 Species: Rat  
 Application Route: Oral  
 Dose: 600 mg/kg  
 Method: OECD Test Guideline 475  
 Result: negative  
 GLP: yes

**2-Aminoethanol** (CAS-No.: 141-43-5)**Acute toxicity**

Acute oral toxicity : LD50 (Rat): 1 515 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 1 025 mg/kg

**Skin corrosion/irritation**

Species: Rabbit  
 Exposure time: 4 h

Result: Corrosive

#### Serious eye damage/eye irritation

Species: Rabbit  
Result: Corrosive

Species: Rabbit  
Result: Severe eye irritation

#### Germ cell mutagenicity

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Result: negative

#### Reproductive toxicity

Effects on foetal development : Species: Rat  
Application Route: Oral  
Dose: 0, 40, 120, 450 milligram per kilogram  
Duration of Single Treatment: 10 d  
General Toxicity Maternal: NOAEL: 120 mg/kg body weight  
Teratogenicity: NOAEL: > 450 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

#### STOT - repeated exposure

Target Organs: Kidney, Liver  
Assessment: May cause damage to organs (larynx) through prolonged or repeated exposure.

#### Repeated dose toxicity

Species: Rat, male and female  
NOAEL: 300 mg/kg  
Application Route: Oral  
Number of exposures: daily

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish : Remarks: no data available

### 12.2 Persistence and degradability

Biodegradability : Remarks: no data available

### 12.3 Bioaccumulative potential

Bioaccumulation : Remarks: no data available

### 12.4 Mobility in soil

Distribution among environmental compartments : Remarks: no data available

### 12.5 Results of PBT and vPvB assessment

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

Additional ecological information : No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.  
Discharge into the environment must be avoided.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life.  
Harmful to aquatic life with long lasting effects.

### The following ecotoxicological data refer to:

#### Didecyldimethylammonium chloride (CAS-No.: 7173-51-5)

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,19 mg/l  
Exposure time: 96 h  
Analytical monitoring: yes  
Method: US-EPA  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,062 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Analytical monitoring: yes  
Method: EPA-FIFRA  
GLP: yes

NOEC (Daphnia magna (Water flea)): 0,014 mg/l  
Exposure time: 21 d  
Remarks: Geometric mean of multiple studies of equivalent relevance/quality (EU Active Substance Assessment Report, June 2015).

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,026 mg/l  
Exposure time: 96 h  
Test Type: Growth inhibition  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Short-term (acute) aquatic hazard) : 10

Toxicity to fish (Chronic toxicity)	: NOEC: 0,032 mg/l Exposure time: 34 d Species: Danio rerio (zebra fish) Analytical monitoring: yes Method: OECD Test Guideline 210 GLP: yes
Toxicity to microorganisms	: EC50 (activated sludge): 11 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 GLP: yes
Toxicity to soil dwelling organisms	: Test Type: Acute toxicity NOEC: >= 1 000 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207 GLP:yes
Plant toxicity	: EC50: 283 - 1 670 mg/kg Exposure time: 14 d End point: Growth inhibition Method: OECD Test Guideline 208
Biodegradability	: Test Type: Modified Sturm Test Concentration: 10 mg/l Result: Readily biodegradable. Biodegradation: 72 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: yes  Test Type: Die-Away Test Concentration: 0,016 mg/l Biodegradation: 93,3 % Exposure time: 28 d GLP: yes  Test Type: OECD Confirmatory Test Biodegradation: 91 % Exposure time: 24 - 70 d Method: OECD Test Guideline 303 A GLP: no  Remarks: The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Stability in water	: Test Type: Abiotic degradation Method: EPA-FIFRA GLP: yes
Distribution among	: Mobile in soils

environmental compartments      Method: US-EPA

**2-Aminoethanol** (CAS-No.: 141-43-5)

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 150 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 65 mg/l  
Exposure time: 48 h  
Test Type: static test
- NOEC (Daphnia magna (Water flea)): 0,85 mg/l  
Exposure time: 21 h
- Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 2,5 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201
- NOEC (Pseudokirchneriella subcapitata (green algae)): 1 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : NOEC: 1,2 mg/l  
Exposure time: 30 d  
Species: Oryzias latipes (Orange-red killifish)
- NOEC: 1,24 mg/l  
Exposure time: 41 d  
Species: Oryzias latipes (Japanese medaka)
- LOEC: 3,55 mg/l  
Exposure time: 41 d  
Species: Oryzias latipes (Japanese medaka)
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,85 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)
- Toxicity to microorganisms : EC50 (activated sludge): > 1 000 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209
- : EC10 (Pseudomonas putida): 6 300 mg/l  
Exposure time: 16 h  
Test Type: Growth inhibition  
Method: DIN 38412 Part 8
- Biodegradability : Test Type: Modified Sturm Test  
Result: Readily biodegradable.  
Biodegradation: > 80 %  
Exposure time: 19 d  
Method: OECD Test Guideline 301B

Bioaccumulation	:	Bioconcentration factor (BCF): < 100
Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product	:	Dispose of contents/container in accordance with local regulation. Contact waste disposal services. Do not dispose of waste into sewer. The product should not be allowed to enter drains, water courses or the soil.
Contaminated packaging	:	Dispose of as unused product. Do not re-use empty containers.

## SECTION 14: Transport information

### IATA

14.1	UN number	:	1903
14.2	Proper shipping name	:	Disinfectant, liquid, corrosive, n.o.s. (2-Aminoethanol, Didecyldimethylammonium chloride)
14.3	Transport hazard class	:	8
14.4	Packing group	:	III
	Labels	:	8
14.5	Environmental hazards	:	no

### IMDG

14.1	UN number	:	1903
14.2	Proper shipping name	:	Disinfectant, liquid, corrosive, n.o.s. (2-Aminoethanol, Didecyldimethylammonium chloride)
14.3	Transport hazard class	:	8
14.4	Packing group	:	III
	Labels	:	8
	EmS Number 1	:	F-A
	EmS Number 2	:	S-B
14.5	Environmental hazards	:	Marine pollutant: yes

### ADR

14.1	UN number	:	1903
14.2	Proper shipping name	:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (2-Aminoethanol, Didecyldimethylammonium chloride)
14.3	Transport hazard class	:	8
14.4	Packing group	:	III
	Classification Code	:	C9
	Hazard Identification Number	:	80
	Labels	:	8
14.5	Environmental hazards	:	yes

**RID**

<b>14.1 UN number</b>	: 1903
<b>14.2 Proper shipping name</b>	: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (2-Aminoethanol, Didecyldimethylammonium chloride)
<b>14.3 Transport hazard class</b>	: 8
<b>14.4 Packing group</b>	: III
Classification Code	: C9
Hazard Identification Number	: 80
Labels	: 8
<b>14.5 Environmental hazards</b>	: yes

**DOT**

<b>14.1 UN number</b>	: 1903
<b>14.2 Proper shipping name</b>	: Disinfectants, liquid, corrosive n.o.s. (2-Aminoethanol, Didecyldimethylammonium chloride)
<b>14.3 Transport hazard class</b>	: 8
<b>14.4 Packing group</b>	: III
Labels	: 8
Emergency Response Guidebook Number	: 153
<b>14.5 Environmental hazards</b>	: no

**TDG**

<b>14.1 UN number</b>	: 1903
<b>14.2 Proper shipping name</b>	: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (2-Aminoethanol, Didecyldimethylammonium chloride)
<b>14.3 Transport hazard class</b>	: 8
<b>14.4 Packing group</b>	: III
Labels	: 8
<b>14.5 Environmental hazards</b>	: no
<b>14.6 Special precautions for user</b>	: none
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	: Not applicable

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E1	ENVIRONMENTAL HAZARDS	Quantity 1 100 t	Quantity 2 200 t
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Water contaminating class (Germany) : WGK 2 obviously hazardous to water  
Classification according to AwSV, Annex 1 (5.2)



**15.2 Chemical safety assessment**

no data available

**SECTION 16: Other information****Classification of the mixture:**

Met. Corr. 1	H290
Skin Corr. 1B	H314
Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 3	H412

**Classification procedure:**

On basis of test data.

**Full text of H-Statements**

H225	: Highly flammable liquid and vapour.
H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H312	: Harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful 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.

**Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic

substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

Date format : dd.mm.yyyy

GB / EN

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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