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

1.1 Product identifier

Trade name : gigasonic®

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

Use of the Substance/Mixture : Disinfectants

Recommended restrictions on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Supplier : Schülke & Mayr GmbH
Robert-Koch-Str. 2

22851 Norderstedt
Germany
Telephone: +49 (0)40/ 52100-0
Telefax: +49 (0)40/ 52100318
mail@schuelke.com
www.schuelke.com

Supplier : Schülke & Mayr UK Ltd.
Cygnet House
1, Jenkin Road, Meadowhall

Sheffield S9 1AT
United Kingdom
Telephone: +44 114 254 35 00
Telefax: +44 114 254 35 01
mail.uk@schulke.com

E-mail address of person responsible for the SDS/Contact person : Application Department
+49 (0)40/ 521 00 8800
ADHI@schuelke.com
(Schülke & Mayr UK Ltd.: +44-1142543500)

1.4 Emergency telephone number

Emergency telephone number : UK Poisons Emergency number: 0870 600 6266

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Acute aquatic toxicity, Category 2	H400: Very toxic to aquatic life.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Danger

Hazard statements :

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements :

P260	Do not breathe vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P310+P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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:

	Cocosalkylpropylendiaminbiguanidiniumdiacetat
90640-43-0	N-dodecylpropane-1,3-diamine
68424-85-1	Alkyl (C12-16) dimethylbenzyl ammonium chloride

Special labelling of certain mixtures : Labelling according to Regulation (EC) No. 648/2004: (5 - 15 % non-ionic surfactants, perfumes)
Contains Limonene, Linalool

Further information : The product is classified in accordance with Annex I (2.6.4.5) to Regulation (EC) 1272/2008.

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 special risks known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Solution of the following substances with harmless additives.

Hazardous components

Chemical name	Index-Number CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Cocosalkylpropylendiamin-biguanidiniumdiacetat	- - - - - - 939-650-3 01-2119980967-14-XXXX	Acute Tox. 4; H302 Skin Corr. 1C; H314 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	14
Alkyl (C12-16) dimethylbenzyl ammonium chloride	- - - 68424-85-1 270-325-2 01-2119965180-41-XXXX	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	2.5
Ethanol	603-002-00-5 64-17-5 200-578-6 01-2119457610-43-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319	5 - 15
Tridecylpolyethylenglycolether	- - - 69011-36-5 Polymer	Aquatic Chronic 3; H412 Eye Dam. 1; H318	5 - 15
Propan-2-ol	603-117-00-0 67-63-0 200-661-7 01-2119457558-25-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	< 5
N-dodecylpropane-1,3-diamine	- - - 90640-43-0 292-562-0 01-2119957843-25-XXXX	Acute Tox. 3; H301 Skin Corr. 1B; H314 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Take off all contaminated clothing immediately.
If inhaled : If symptoms persist, call a physician.
In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.
In case of eye contact : In case of eye contact, remove contact lens and rinse imme-

diately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

If swallowed : Do NOT induce vomiting. Rinse mouth with water. Give small amounts of water to drink. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Treat symptomatically.,

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry powder, Foam, Carbon dioxide (CO2), Water spray jet

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.

Specific risk from the substance or the product itself, its combustion products or evolved gases : Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx)

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Increased risk of slipping in the presence of leaked / spilled product. Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

see Section 8 + 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Prepare the working solution as given on the label(s) and/or the user instructions.
Advice on protection against fire and explosion	:	No special protective measures against fire required.
Hygiene measures	:	Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Store at room temperature in the original container.
Further information on storage conditions	:	Keep away from direct sunlight. Keep away from heat. Keep container tightly closed.
Advice on common storage	:	No materials to be especially mentioned.

7.3 Specific end use(s)

Specific use(s)	:	none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethanol	64-17-5	WEL	1,000 ppm 1,920 mg/m3	HSE
Propan-2-ol	67-63-0	WEL	400 ppm 999 mg/m3	HSE
		WEL	500 ppm 1,250 mg/m3	HSE

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Alkyl (C12-16) dimethylbenzyl ammonium chloride	Workers	Skin contact	Long-term systemic effects	5.7 mg/kg
	Workers	Inhalation	Long-term systemic effects	3.96 mg/m3
Ethanol	Workers	Inhalation	Acute effects, Local effects	1900 mg/m3
	Workers	Skin contact	Chronic effects	343 mg/kg
	Workers	Inhalation	Chronic effects	950 mg/m3
Propan-2-ol	Workers	Skin contact	Long-term exposure, Systemic effects	888 mg/kg
	Workers	Inhalation	Long-term exposure, Systemic effects	500 mg/m3

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

Substance name	Environmental Compartment	Value

Alkyl (C12-16) dimethylbenzyl ammonium chloride	Fresh water	0.0009 mg/l
	Marine water	0.00009 mg/l
	Fresh water sediment	12.27 mg/kg
	Marine sediment	13.09 mg/kg
	Soil	7 mg/kg
	Effects on waste water treatment plants	0.4 mg/l
Ethanol	Fresh water	0.96 mg/l
	Marine water	0.79 mg/l
	Fresh water sediment	3.6 mg/kg
	Soil	0.63 mg/kg
Propan-2-ol	Fresh water	140.9 mg/l
	Marine water	140.9 mg/l
	Fresh water sediment	552 mg/kg
	Marine sediment	552 mg/kg
	Soil	28 mg/kg
	Intermittent use/release	140.9 mg/l
	Effects on waste water treatment plants	2251 mg/l
	Oral	160 mg/kg food

8.2 Exposure controls

Engineering measures

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection
Directive : The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Remarks : Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.

Respiratory protection : No personal respiratory protective equipment normally required.

Protective measures : Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	yellow
Odour	:	amine-like
Odour Threshold	:	not determined
pH	:	9.1 - 9.5, 20 °C, concentrate
Melting point/freezing point	:	< -5 °C
Decomposition temperature	:	No data available
Boiling point/boiling range	:	ca. 90 °C
Flash point	:	36 °C, DIN 51755 Part 1 Other information: Does not sustain combustion.
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Relative vapour density	:	No data available
Density	:	ca. 0.99 g/cm3, 20 °C
Solubility(ies)		
Water solubility	:	in all proportions , 20 °C
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	ca. 30 mPa*s, 20 °C, DIN 54453
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

None reasonably foreseeable.

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

10.5 Incompatible materials

Incompatible with acids.,

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity	:	Acute toxicity estimate: 1,305 mg/kg, Harmful if swallowed.
Acute inhalation toxicity	:	Acute toxicity estimate: 14.7 mg/l
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg

Skin corrosion/irritation

Product:

Causes severe skin burns and eye damage., Calculation method

Serious eye damage/eye irritation

Product:

Causes serious eye damage., Calculation method

Respiratory or skin sensitisation

Components:

Cocosalkylpropylendiaminbiguanidiniumdiacetat:
No data available
Alkyl (C12-16) dimethylbenzyl ammonium chloride:
Did not cause sensitisation on laboratory animals.Guinea pig
Ethanol:
Did not cause sensitisation on laboratory animals.Maximisation Test, Guinea pig
Tridecylpolyethylenglycolether:
Did not cause sensitisation on laboratory animals.Maximisation Test, Guinea pig
Propan-2-ol:
Did not cause sensitisation on laboratory animals.Buehler Test, Guinea pig
N-dodecylpropane-1,3-diamine:
not applicable, corrosive substance. According Guidline OECD 402 a non- corrosive concentration has to be tested

Germ cell mutagenicity

Components:

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Germ cell mutagenicity- Assessment	:	No data available

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Genotoxicity in vitro	:	Not mutagenic in Ames Test
Germ cell mutagenicity- Assessment	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Ethanol:

Genotoxicity in vitro	:	OECD Test Guideline 471, Not mutagenic in Ames Test
Genotoxicity in vivo	:	not mutagenic
Germ cell mutagenicity- Assessment	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Tridecylpolyethylenglycolether:

Genotoxicity in vitro	:	Not mutagenic in Ames Test
Germ cell mutagenicity- Assessment	:	Not mutagenic in Ames Test

Propan-2-ol:

Genotoxicity in vitro	:	Ames test, Mutagenicity (Escherichia coli - reverse mutation

assay), not mutagenic

Genotoxicity in vivo : Mouse, Mutagenicity (micronucleus test), not mutagenic

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

N-dodecylpropane-1,3-diamine:

Genotoxicity in vitro : Not mutagenic in Ames Test

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

Carcinogenicity

Components:

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Carcinogenicity - Assessment : No data available

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Ethanol:

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

Tridecylpolyethylenglycolether:

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

Propan-2-ol:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

N-dodecylpropane-1,3-diamine:

Carcinogenicity - Assessment : No data available

Reproductive toxicity

Components:

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Reproductive toxicity - Assessment : No data available

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

Ethanol:

Effects on foetal development : Rat, Oral, NOAEL: 2,000 mg/kg

Reproductive toxicity - Assessment : In animal testing, risk of impaired fertility was shown only after administration of very high doses of this substance.

Tridecylpolyethylenglycolether:

Effects on fertility : Two-generation study, Rat, NOAEL: > 250 mg/kg, F1: > 250 mg/kg, F2: > 250 mg/kg
Rat, Oral, NOAEL: > 50 mg/kg, NOAEL: 50 mg/kg
Rat, Dermal, NOAEL: > 250 mg/kg, NOAEL: 250 mg/kg

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

Propan-2-ol:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

N-dodecylpropane-1,3-diamine:

Reproductive toxicity - Assessment : According to experience not expected

STOT - single exposure

Product:

May cause damage to organs through prolonged or repeated exposure.

STOT - repeated exposure

Components:

Alkyl (C12-16) dimethylbenzyl ammonium chloride:
No data available
Tridecylpolyethylenglycolether:
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Propan-2-ol:
Based on available data, the classification criteria are not met.
N-dodecylpropane-1,3-diamine:
Ingestion, Gastrointestinal tract, Immune system, Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Ethanol:
Rat, NOAEL: 1,730 mg/kg, LOAEL: 3,160 mg/kg, Oral90 d
N-dodecylpropane-1,3-diamine:
Rat, male and female, NOAEL: 0.4 mg/l, Ingestion, OECD Test Guideline 408

Aspiration toxicity

Components:

Tridecylpolyethylenglycolether:
No aspiration toxicity classification

Further information

Product:

No data is available on the product itself.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.28 mg/l, 48 h, Analytical monitoring: yes, OECD Test Guideline 202, GLP: yes, This declaration has been derived from products of similar composition.

Ecotoxicology Assessment
Acute aquatic toxicity : Very toxic to aquatic life.
Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Components:

Cocosalkylpropylendiaminbiguanidiniumdiacetat:
Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.1 - 1 mg/l, 96 h
Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae	:	No data available
M-Factor (Acute aquatic toxicity)	:	10
M-Factor (Chronic aquatic toxicity)	:	1

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Toxicity to fish	:	LC50 : 0.85 mg/l, 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna): 0.015 mg/l, 48 h
Toxicity to algae	:	IC50 : 0.03 mg/l, 72 h
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to fish (Chronic toxicity)	:	NOEC: 0.032 mg/l , 34 d, Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0.0042 mg/l , 21 d, Daphnia magna (Water flea)
M-Factor (Chronic aquatic toxicity)	:	1

Ethanol:

Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): 8,140 mg/l, 48 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 5,000 mg/l, 48 h
Toxicity to algae	:	IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l, 72 h

Tridecylpolyethylenglycolether:

Toxicity to fish	:	LC50 (Cyprinus carpio (Carp)): > 1 - 10 mg/l, 96 h, OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l, 48 h, OECD Test Guideline 202
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): 1 - 10 mg/l, 72 h, OECD Test Guideline 201

Propan-2-ol:

Toxicity to fish	:	LC50 (Leuciscus idus): > 100 mg/l, 48 h, static test, Raw material, literature value
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna): > 100 mg/l, 48 h, static test, Raw material, literature value
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l, 72 h, static test, Raw material, literature value

N-dodecylpropane-1,3-diamine:

Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): 0.148 mg/l, 96 h, OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	NOEC (Daphnia magna): 0.032 mg/l, Reproduction Test, OECD Test Guideline 211, 21 -days
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (microalgae)): 0.0652 mg/l, 72 h, OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	:	100
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0.032 mg/l , 21 d, Daphnia magna (Water flea), OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	:	1

12.2 Persistence and degradability

Product:

Biodegradability	:	According to OECD criteria, the product is inherently biodegradable., The statement has been derived from the properties of the individual components.
Chemical Oxygen Demand (COD)	:	18,323 mg/l ,1 % solution

Components:

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Biodegradability	:	biodegradable, OECD 301B/ ISO 9439/ EEC 84/449 C5

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Biodegradability	:	Readily biodegradable., OECD 301D / EEC 84/449 C6

Ethanol:

Biodegradability	:	Readily biodegradable.

Tridecylpolyethylenglycolether:

Biodegradability	:	rapidly biodegradable, Biodegradation: > 60 %, Exposure time: 28 d, OECD 301B/ ISO 9439/ EEC 84/449 C5

Propan-2-ol:

Biodegradability	:	Readily biodegradable.

N-dodecylpropane-1,3-diamine:

Biodegradability	:	biodegradable, OECD Test Guideline 301A

12.3 Bioaccumulative potential

Components:

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Bioaccumulation	:	No data available

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Bioaccumulation	:	Does not bioaccumulate.

Ethanol:

Bioaccumulation	:	Bioaccumulation is unlikely.
Partition coefficient: n-octanol/water	:	log Pow: -0.14, calculated

Tridecylpolyethylenglycolether:

Bioaccumulation	:	Bioaccumulation is unlikely.

Propan-2-ol:

Bioaccumulation	:	No bioaccumulation is to be expected (log Pow <= 4).
Partition coefficient: n-octanol/water	:	log Pow: 0.05 (20 °C), OECD Test Guideline 107

N-dodecylpropane-1,3-diamine:

Bioaccumulation	:	Does not bioaccumulate.

12.4 Mobility in soil

Components:

Cocosalkylpropylendiaminbiguanidiniumdiacetat:

Mobility	:	No data available

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Mobility	:	No data available

Ethanol:

Mobility	:	No data available

Tridecylpolyethylenglycolether:

Mobility	:	Adsorbs on soil.

Propan-2-ol:

Mobility	:	Mobile in soils

N-dodecylpropane-1,3-diamine:

Mobility	:	not determined

12.5 Results of PBT and vPvB assessment

Product:

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

Product:

Additional ecological information	:	none

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Dispose of the product according to the defined EWC (European Waste Code) No.
Contaminated packaging	:	Take empty packaging to the recycling plant.
Waste key for the unused product	:	European waste catalog (EWC) 070601
Waste key for the unused product(Group)	:	Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

SECTION 14: Transport information

14.1 UN number

ADR	:	UN 1903
IMDG	:	UN 1903
IATA	:	UN 1903

14.2 UN proper shipping name

ADR	:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Cocosalkylpropylendiaminbiguanidiniumdiacetat, Alkyl (C12-16) dimethylbenzyl ammonium chloride)
IMDG	:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Cocosalkylpropylendiaminbiguanidiniumdiacetat, Alkyl (C12-16) dimethylbenzyl ammonium chloride)
IATA	:	Disinfectant, liquid, corrosive, n.o.s. (Cocosalkylpropylendiaminbiguanidiniumdiacetat, Alkyl (C12-16) dimethylbenzyl ammonium chloride)

14.3 Transport hazard class(es)

ADR	:	8
IMDG	:	8

IATA : 8

14.4 Packing group

ADR

Packing group	:	III
Classification Code	:	C9
Hazard Identification Number	:	80
Labels	:	8
Tunnel restriction code	:	E

IMDG

Packing group	:	III
Labels	:	8
EmS Code	:	F-A, S-B

IATA

Packing instruction (cargo aircraft)	:	856
Packing group	:	III
Labels	:	Corrosive

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

Not classified as supporting combustion according to the transport regulations.
For personal protection see section 8.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. :		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 t	200 t

Volatile organic compounds : Volatile organic compounds (VOC) content: 10 %, Directive

2010/75/EC on the limitation of emissions of volatile organic compounds

Other regulations : Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

15.2 Chemical safety assessment

Exempt

SECTION 16: Other information

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.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H336	:	May cause drowsiness or dizziness.
H372	:	Causes damage to organs through prolonged or repeated exposure if swallowed.
H373	:	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Acute aquatic toxicity
Aquatic Chronic	:	Chronic aquatic toxicity
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Skin Corr.	:	Skin corrosion
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure

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; 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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008

Acute Tox. 4, H302	:	Calculation method
Skin Corr. 1B, H314	:	Calculation method
Eye Dam. 1, H318	:	Calculation method
STOT SE 2, H373	:	Calculation method
Aquatic Acute 2, H400	:	Calculation method
Aquatic Chronic 2, H411	:	Calculation method

Changes compared with the previous edition!!!

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.