

Bactakil 55

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

1.1 - Product identifier

Trade name/designation Bactakil 55
Chemical name
Product-type Mixture

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

Relevant identified uses - Animal housing disinfectant

Uses advised against - Use only for intended applications

1.3 - Details of the supplier of the safety data sheet

Osmonds
Bradeley Green, Tarporley Road,
Whitchurch, Shropshire, SY13 4HD
United Kingdom
Telephone : 01948 668100 (09:00 - 17:00)
SDS Contact: Osmonds - Tel 01948668100 (09:00 - 17:00) email: info@osmonds.co.uk

1.4 - Emergency telephone number

- National Poisons Information Service

For medical advice or information, you should contact your GP or NHS 111 (or NHS 24 in Scotland) on 111 (for 24 hour health advice)

If you are a healthcare professional with an enquiry, please visit www.TOXBASE.org United Kingdom

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
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Acute Tox. 3 Inhalation	Acute toxicity (inhalative) - Category 3
Skin Irrit. 2	Irritation, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Skin Sens. 1	Skin sensitization - Category 1
Muta. 2	Germ cell mutagenicity - Category 2
Carc. 1B	Carcinogenicity - Category 1B
STOT SE 3 (H335)	STOT-single exposure - Category 3 (H335)
STOT RE 2	STOT-repeated exposure - Category 2
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3

2.2 - Label elements

Contains: L-(+)-lactic acid (CAS No.: 79-33-4) | Iodine (CAS No.: 7553-56-2) | Betaines, C12-14-alkyldimethyl (CAS No.: 66455-29-6) | methanol (CAS No.: 67-56-1) | formaldehyde ... % (CAS No.: 50-00-0)

Signal word : Danger

Hazard pictograms



Hazard statements

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H350	May cause cancer

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H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects
Precautionary statements	

P201	Obtain special instructions before use.
P260	Do not breathe mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER/a doctor.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
EUH-phrases	: None

2.3 - Other hazards

PBT-substance. - The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Other hazards which do not result in classification

- Restricted to professional users.
- This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.
- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

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3.2 - Mixtures

- Full text of H- and EUH-statements: see section 16.
- Contains:
- Substance with a Community workplace exposure limit - See section 8.

Chemical name	No	%	Class(es)	Specific concentration limit
formaldehyde ... %	CAS No. : 50-00-0 Index No. : 605-001-00-5 EC No. : 200-001-8 REACH No. : 012119488953-20-XXXX	5 - < 10	Acute Tox. 2 Inhalation - H330 Acute Tox. 3 Dermal - H311 Acute Tox. 3 Oral - H301 Carc. 1B - H350 Muta. 2 - H341 Skin Corr. 1B - H314 Skin Sens. 1A - H317	Skin Corr. 1B - H314 : 25<=%<=100 STOT SE 3 (H335) - H335 : 5<=%<=100 Skin Irrit. 2 - H315 : 5<=%<25 Eye Irrit. 2 - H319 : 5<=%<25 ATE Inhalation Gas 100
L-(+)-lactic acid	CAS No. : 79-33-4 Index No. : 607-743-00-5 EC No. : 201-196-2 REACH No. : 012119474164-39-XXXX	1 - < 3	Eye Dam. 1 - H318 Skin Corr. 1C - H314	Not applicable
Alcohols, C12-13, branched and linear, ethoxylated	CAS No. : 160901-19-9 Index No. : EC No. : 931-954-4	1 - < 3	Acute Tox. 4 Oral - H302 Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412 Eye Dam. 1 - H318	Not applicable
Iodine	CAS No. : 7553-56-2 Index No. : 053-001-00-3 EC No. : 231-442-4 REACH No. : 012119457892-27-XXXX	1 - < 3	Acute Tox. 4 Dermal - H312 Acute Tox. 4 Inhalation - H332 Acute Tox. 4 Oral - H302 Aquatic Acute 1 - H400 Eye Irrit. 2 - H319 Skin Irrit. 2 - H315 STOT RE 1 - H372 STOT SE 3 (H335) - H335	ATE oral 315 ATE dermal 1425 ATE Inhalation Dust/Mist 4.6
ethanol	CAS No. : 64-17-5 Index No. : 603-002-00-5 EC No. : 200-578-6 REACH No. : 012119457610-43-XXXX	1 - < 3	Eye Irrit. 2 - H319 Flam. Liq. 2 - H225	Eye Irrit. 2 - H319 : 50<=%<=100
Betaines, C12-14alkyldimethyl	CAS No. : 66455-29-6 Index No. : EC No. : 266-368-1	1 - < 3	Aquatic Chronic 3 - H412 Eye Dam. 1 - H318 Skin Corr. 1B - H314	Not applicable
tetradonium bromide	CAS No. : 1119-97-7 Index No. : EC No. : 214-291-9	1 - < 3	Acute Tox. 4 Oral - H302 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Eye Dam. 1 - H318 Skin Irrit. 2 - H315 STOT RE 2 - H373 STOT SE 3 (H335) - H335	Skin Irrit. 2 - H315 : 2.5<=%<=100 M-factor: 100 / 1 ATE oral 390

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methanol	CAS No. : 67-56-1 Index No. : 603-001-00-X EC No. : 200-659-6 REACH No. : 012119433307-44-XXXX	1 - < 3	Acute Tox. 3 Dermal - H311 Acute Tox. 3 Inhalation - H331 Acute Tox. 3 Oral - H301 Flam. Liq. 2 - H225 STOT SE 1 - H370	STOT SE 2 - H371 : 3<=%<10 STOT SE 1 - H370 : 10<=%<=100
D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)3,12-diimino-2,4,11,13tetraazatetra decanediamidine (2:1)	CAS No. : 18472-51-0 Index No. : EC No. : 242-354-0 REACH No. : 012119946568-22-XXXX	< 0.1	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Eye Dam. 1 - H318	M-factor: 10 / 1
Amines, N-C12-C14 (even numbered)-alkyltrimethylenedi-reaction products with chloroacetic acid	CAS No. : 139734-65-9 Index No. : EC No. : 941-419-7 REACH No. : 012120050368-56-XXXX	< 0.1	Acute Tox. 3 Dermal - H311 Acute Tox. 4 Oral - H302 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Eye Dam. 1 - H318 Skin Corr. 1C - H314 STOT RE 2 - H373	Eye Irrit. 2 - H319 : 1<=%<3 Skin Irrit. 2 - H315 : 1<=%<=20 M-factor: 10 / 1 ATE oral 660

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation

- Provide fresh air.
- After inhaling vapours, first symptoms of poisoning may develop hours later, so always consult a doctor.
- When in doubt or if symptoms are observed, get medical advice.
- Medical examination necessary even merely on suspicion of intoxication.
- Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

Following skin contact

- Remove contaminated, saturated clothing immediately.
- After contact with skin, wash immediately with plenty of water and soap.
- In case of skin irritation, consult a physician.
- In case of skin reactions, consult a physician.

After eye contact

- Rinse immediately carefully and thoroughly with eye-bath or water.
- Remove contact lenses, if present and easy to do. Continue rinsing.
- Call a physician immediately.

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After ingestion

- Rinse mouth thoroughly with water.
- Do NOT induce vomiting.
- In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
- Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

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

Symptoms and effects - Following inhalation

- Toxic if inhaled.
- May cause respiratory irritation.

Symptoms and effects - Following skin contact

- Causes skin irritation.
- May cause sensitization by skin contact.
- May cause an allergic skin reaction.

Symptoms and effects - After eye contact

- The following symptoms may occur: Impairment of vision
- Serious eye damage/eye irritation
- Causes tears.
- Conjunctival redness.

Symptoms and effects - After ingestion

- Harmful if swallowed.
- Liver and kidney damage

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

- Treat symptomatically.
- May cause damage to organs through prolonged or repeated exposure.
- Organs affected:
 - thyroid gland
- May cause cancer.
- Suspected of causing genetic defects.

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SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder
- Carbon dioxide (CO₂)
- Foam
- Extinguishing powder

Unsuitable extinguishing media

- Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture

- Hazardous combustion products

Hazardous decomposition products

- Carbon dioxide (CO₂)
- Carbon monoxide
- Gases/vapours, toxic
- Hydrogen bromide (HBr)
- Hydrogen iodide (HI)
- Nitrogen oxides (NO_x)

5.3 - Advice for firefighters

- Remove product from area of fire.
- Use water spray jet to protect personnel and to cool endangered containers.
- Wear a self-contained breathing apparatus and chemical protective clothing.
- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
- Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

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6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Use personal protection equipment.
- Remove persons to safety.
- Do not breathe mist/vapours/spray.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
- Avoid contact with skin, eyes and clothes.
- Provide adequate ventilation.

For emergency responders

- Wear personal protection equipment (refer to section 8).
- Remove persons to safety.
- Do not breathe mist/vapours/spray.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
- Avoid contact with skin, eyes and clothes.
- Provide adequate ventilation.

6.2 - Environmental precautions

- Do not allow to enter into soil/subsoil.
- Do not allow to enter into surface water or drains.
- Retain contaminated washing water and dispose it.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment

- No information available.
- Soak up inert absorbent and dispose as waste requiring special attention.

Methods and material for cleaning up

- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
- Take up mechanically, placing in appropriate containers for disposal.
- Clear contaminated areas thoroughly.
- Ventilate affected area.

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Inappropriate techniques

- No information available.

6.4 - Reference to other sections

- Personal protection equipment: see section 8
- Disposal: see section 13

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation

- Avoid: Eye contact
- It is recommended to design all work processes always so that the following is excluded: Eye contact
- Avoid: Skin contact
- It is recommended to design all work processes always so that the following is excluded: Skin contact
- After use replace the closing cap immediately.
- All work processes must always be designed so that the following is excluded: Inhalation
- See section 8.

Advices on general occupational hygiene

- When using do not eat, drink, smoke, sniff.
- Wash hands before breaks and after work.
- Thorough skin-cleansing after handling the product.
- Immediately remove any contaminated clothing, shoes or stockings.
- Used working clothes should not be worn outside the work area.
- Wash contaminated clothing prior to re-use.
- In the immediate working surroundings there must be: Make available sufficient washing facilities
- Provide eye shower and label its location conspicuously
- Avoid breathing dust/fume/gas/mist/vapours/spray.

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- Work in well-ventilated zones or use proper respiratory protection.

7.2 - Conditions for safe storage, including any incompatibilities

- Restricted to professional users.
- Avoid high temperatures or direct sunlight.
- Keep container tightly closed in a cool, well-ventilated place.
- Store in a place accessible by authorized persons only.

7.3 - Specific end use(s)

- The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

Iodine (7553-56-2)	
STEL EH40 ppm (UK)	0.1 ppm
STEL EH40 mg/m ³ (UK)	1.1 mg/m ³

ethanol (64-17-5)	
TWA EH40 ppm (UK)	1000 ppm
TWA EH40 mg/m ³ (UK)	1920 mg/m ³

methanol (67-56-1)	
IOELV TWA mg/m ³ (UE)	260 mg/m ³ Skin
IOELV TWA ppm (UE)	200 ppm Skin
TWA EH40 ppm (UK)	200 ppm
TWA EH40 mg/m ³ (UK)	266 mg/m ³

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STEL EH40 ppm (UK)	250 ppm
STEL EH40 mg/m ³ (UK)	333 mg/m ³ Skin

formaldehyde ... % (50-00-0)	
TWA EH40 ppm (UK)	2 ppm
TWA EH40 mg/m ³ (UK)	2.5 mg/m ³
STEL EH40 ppm (UK)	2 ppm
STEL EH40 mg/m ³ (UK)	2.5 mg/m ³

- Skin =
- H: skin resorptive
- May be absorbed through the skin.

DNEL / PNEC

Iodine (7553-56-2)			
Type	Value	User	Effect
DNEL long-term inhalative	0.07 mg/m ³	Workers	Systemic
DNEL long-term dermal	0.01 mg/kg bw/day	Workers	Systemic
PNEC aquatic, freshwater	0.01813 mg/l		
PNEC aquatic, marine water	0.06 mg/l		
PNEC sediment, freshwater	3.99 mg/kg		
PNEC sediment, marine water	20.22 mg/kg		
PNEC soil	5.95 mg/kg		
PNEC sewage treatment plant (STP)	11 mg/l		

tetradonium bromide (1119-97-7)			
Type	Value	User	Effect
DNEL acute inhalative	0.05 mg/m ³	Workers	Local
DNEL long-term inhalative	0.05 mg/m ³	Workers	Local
DNEL acute dermal, short-term	0.25 mg/kg	Workers	Local

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DNEL long-term dermal	0.4 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	0.05 mg/cm²	Workers	Local
PNEC aquatic, freshwater	2.6E-05 mg/l		
PNEC aquatic, marine water	3E-06 mg/l		
PNEC sewage treatment plant (STP)	0.19 mg/l		

D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) (18472-51-0)

Type	Value	User	Effect
DNEL long-term inhalative	0.36 mg/m3	Workers	Systemic
DNEL long-term dermal	6 mg/kg bw/day	Workers	Systemic
PNEC aquatic, freshwater	0.001 mg/l		
PNEC aquatic, marine water	0 mg/l		
PNEC sediment, freshwater	0.866 mg/kg		
PNEC sediment, marine water	0.087 mg/kg		
PNEC soil	5.26 mg/kg		
PNEC sewage treatment plant (STP)	0.25 mg/l		

Amines, N-C12-C14 (even numbered)- alkyltrimethylenedi-reaction products with chloroacetic acid (139734-65-9)

Type	Value	User	Effect
DNEL long-term inhalative	0.19 mg/m3	Workers	Systemic
DNEL long-term dermal	2.86 mg/kg bw/day	Workers	Systemic
PNEC aquatic, freshwater	0.00031 mg/l		
PNEC aquatic, marine water	3.1E-05 mg/l		
PNEC sediment, freshwater	1.8 mg/kg		
PNEC sediment, marine water	0.18 mg/kg		
PNEC soil	0.726 mg/kg		
PNEC sewage treatment plant (STP)	0.22 mg/l		

methanol (67-56-1)

Type	Value	User	Effect
DNEL acute inhalative	130 mg/m3	Workers	Systemic
DNEL acute inhalative	130 mg/m3	Workers	Local

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DNEL long-term inhalative	130 mg/m3	Workers	Systemic
DNEL long-term inhalative	130 mg/m3	Workers	Local
DNEL acute dermal, short-term	20 mg/kg	Workers	Systemic
DNEL long-term dermal	20 mg/kg bw/day	Workers	Systemic

formaldehyde ... % (50-00-0)

Type	Value	User	Effect
DNEL acute inhalative	0.75 mg/m3		
DNEL long-term inhalative	9 mg/m3		
DNEL long-term inhalative	0.375 mg/m3		
DNEL long-term dermal	240 mg/kg bw/day		
DNEL long-term dermal	0.037 mg/cm²		

8.2 - Exposure controls

Appropriate engineering controls

- No information available.
- Provide adequate ventilation.
- Substance with a common (EC) occupational exposure limit value.

Individual protection measures, such as personal protective equipment

- Suitable eye protection: Eye glasses with side protection
- Tested protective gloves must be worn
- For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
- Breakthrough times and swelling properties of the material must be taken into consideration.



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- Suitable material: NBR (Nitrile rubber)
- Butyl caoutchouc (butyl rubber)
- FKM (fluoro rubber)
- Suitable protective clothing: Full protection suit
- Barrier creams are not substitutes for body protection.
- After contact with skin, wash immediately with plenty of water and soap.
- Provide eye shower and label its location conspicuously
- Make available sufficient washing facilities
- Take off contaminated clothing and wash it before reuse.



- Wash hands before breaks and after work.
- Suitable respiratory protection apparatus: Self-contained respirator (breathing apparatus)
- This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.
- Use only respiratory protection equipment with CE-symbol including four digit test number.



Environmental exposure controls

- Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

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9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Liquid	<u>Appearance</u>	Liquid
<u>Colour</u>	Brown. / Green.	<u>Odour</u>	pungent
Odour threshold	No data available		
pH	4		
Melting point	not applicable		
Freezing point	No data available		
Boiling point	No data available		
Flash point	> 60 °C		
Evaporation rate	No data available		
flammability	No data available		
Lower explosion limit	No data available		
Upper explosion limit	No data available		
Vapour pressure	No data available		
Vapour density	> 1		
Relative density	1.06		
Density	No data available		
Solubility (Water)	completely miscible		
Solubility (Ethanol)	No data available		
Solubility (Acetone)	No data available		
Solubility (Organic solvents)	No data available		
Log KOC	No data available		
Auto-ignition temperature	No data available		
Decomposition temperature	No data available		
Kinematic viscosity	No data available		
Dynamic viscosity	No data available		

9.2 - Other information

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According to Regulation GB CLP

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

- Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- prolonged exposure to extreme heat
- Polymerises when heated. at temperatures greater 60oC

10.5 - Incompatible materials

- Acid

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- Oxidising agent, strong
- Alkali (lye)
- metals (including their alloys)

10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.
- Thermal decomposition can lead to the escape of irritating gases and vapours.
- Gases/vapours, toxic
- Carbon dioxide
- Carbon monoxide
- Hydrogen bromide (HBr)
- Hydrogen iodide (HI)
- Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

- Acute toxicity (oral) - Category 4 - Harmful if swallowed
- Acute toxicity (inhalative) - Category 3 - Toxic if inhaled

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- Toxic by inhalation.
- Harmful if swallowed.
- Calculation method.
- May be absorbed through the skin.

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Skin corrosion/irritation

- Irritation, Category 2 - Causes skin irritation

- Irritating to skin.

Serious eye damage/eye irritation

- Serious eye damage, Category 1 - Causes serious eye damage

- Risk of serious damage to eyes.
- Causes serious eye irritation.
- Calculation method.

Respiratory or skin sensitisation

- Skin sensitization - Category 1 - May cause an allergic skin reaction

- May cause sensitization by skin contact.
- May cause an allergic skin reaction.
- Calculation method.

Germ cell mutagenicity

- Germ cell mutagenicity - Category 2 - Suspected of causing genetic defects

- Suspected of causing genetic defects.
- Calculation method.

Carcinogenicity

- Carcinogenicity - Category 1B - May cause cancer

- May cause cancer.
- Calculation method.

Reproductive toxicity

- Not classified

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

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STOT-single exposure - STOT-single exposure - Category 3 (H335) - May cause respiratory irritation

- May cause respiratory irritation.
- Calculation method.

STOT-repeated exposure - STOT-repeated exposure - Category 2 - May cause damage to organs through prolonged or repeated exposure

- May cause damage to organs through prolonged or repeated exposure.
- Organs affected:
 - thyroid gland
- Calculation method.

Aspiration hazard - Not classified

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

Toxicity : Substances

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Iodine (7553-56-2)	
EC50 48 hr crustacea	0.55 mg/l Daphnia magna (Big water flea)
LC50 96 hr fish	1.67 mg/l Oncorhynchus mykiss (Rainbow trout)
NOEC chronic algae	0.13 mg/l

D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13tetraazatetradecanediamidine (2:1) (18472-51-0)	
EC50 48 hr crustacea	0.087 mg/l Daphnia magna (Big water flea)
LC50 96 hr fish	2.08 mg/l Danio rerio (zebrafish)
ErC50 algae	0.019 mg/l
NOEC chronic fish	0.012 mg/l Oncorhynchus mykiss (Rainbow trout)
NOEC chronic crustacea	0.02 mg/l Daphnia magna (Big water flea)

Amines, N-C12-C14 (even numbered)- alkyltrimethylenedi-reaction products with chloroacetic acid (139734-65-9)	
EC50 48 hr crustacea	0.0333 mg/l Daphnia magna (Big water flea)
LC50 96 hr fish	0.2074 mg/l Oncorhynchus mykiss (Rainbow trout)
ErC50 algae	0.0237 mg/l
NOEC chronic fish	0.0523 mg/l Oncorhynchus mykiss (Rainbow trout)
NOEC chronic crustacea	0.0031 mg/l Daphnia magna (Big water flea)

- Very toxic to aquatic life.
- Harmful to aquatic life with long lasting effects.

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12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No information available.

12.4 - Mobility in soil

- No information available.
- completely miscible
- If product enters soil, it will be mobile and may contaminate groundwater.

12.5 - Results of PBT and vPvB assessment

- The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 - Other adverse effects

- Do not allow to enter into soil/subsoil.
- Do not allow to enter into surface water or drains.

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SECTION 13: Disposal considerations

13.1 - Waste treatment methods

Waste treatment methods

- Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.
- Handle contaminated packages in the same way as the substance itself.

Sewage disposal

- No information available.

Special precautions for waste treatment

- Collect the waste separately.
- Waste requires monitoring.
- The waste is to be kept separate from other types of waste until its disposal.
- Waste for disposal is to be classified and labelled.
- Consult the appropriate local waste disposal expert about waste disposal.
- This material and its container must be disposed of as hazardous waste.

Community or national or regional provisions

- The waste code has to be identified in agreement with the disposal company or the competent authority.
- Hazard HP4, HP5, HP6, HP7, HP11 & HP13

SECTION 14: Transport information

14.1 - UN number or ID number

<u>UN number (ADR)</u>	:	UN3082
<u>UN number (RID)</u>	:	UN3082
<u>UN number (IMDG)</u>	:	UN3082
<u>UN number (IATA)</u>	:	UN3082

14.2 - UN proper shipping name

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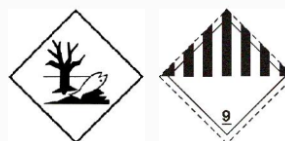
<u>UN proper shipping name (ADR)</u>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tetradonium bromide, D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13- tetraazatetradecanediamidine (2:1), Amines, N-C12-C14 (even numbered)- alkyltrimethylenedi-reaction products with chloroacetic acid)
<u>UN proper shipping name (RID)</u>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tetradonium bromide, D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13- tetraazatetradecanediamidine (2:1), Amines, N-C12-C14 (even numbered)- alkyltrimethylenedi-reaction products with chloroacetic acid)
<u>UN proper shipping name (IMDG)</u>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tetradonium bromide, D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13- tetraazatetradecanediamidine (2:1), Amines, N-C12-C14 (even numbered)- alkyltrimethylenedi-reaction products with chloroacetic acid)
<u>UN proper shipping name (IATA)</u>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tetradonium bromide, D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13- tetraazatetradecanediamidine (2:1), Amines, N-C12-C14 (even numbered)- alkyltrimethylenedi-reaction products with chloroacetic acid)

14.3 - Transport hazard class(es)

ADR Transport hazard class(es) : 9

ADR Classification code: : M6

Pictograms



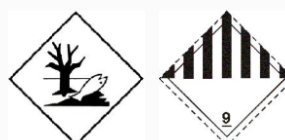
Transport hazard class(es) (RID) : 9

Pictograms



Transport hazard class(es) (IMDG) : 9

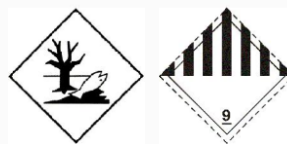
Pictograms



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Transport hazard class(es) : 9
(IATA)

Pictograms



14.4 - Packing group

Packing group : III

Packing group (RID) : III

Packing group (IMDG) : III

Packing group (IATA) : III

14.5 - Environmental hazards

Environmental hazards : Yes.

Marine pollutant : Hazardous to the aquatic environment - Aquatic Acute 1

14.6 - Special precautions for user

ADR

ADR Classification code: : M6

ADR Special provisions : 274+335+375+601

ADR Limited quantity (LQ) : 5L

ADR Excepted quantities : E1

ADR Packing instructions : P001 IBC03 LP01 R001

ADR Special packing provisions : PP1

ADR Mixed packing provisions : MP19

Instructions for portable tanks and bulk containers : T4

Special provisions for portable tanks and bulk containers : TP1 TP29

ADR tank code : LGBV

ADR tanks special provisions :

Vehicle for tank carriage : AT

ADR Transport category : 3

ADR Tunnel restriction code : -

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<u>ADR Special provisions loading, unloading and handling</u>	:	CV13
<u>Special provisions - Packages</u>	:	V12
<u>Special provisions - Bulk</u>	:	
<u>Special provisions - Operation</u>	:	
<u>ADR Hazard identification number (Kemler No.)</u>	:	90

RID

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

IMDG

<u>Special provisions</u>	:	274 335 969
<u>Limited quantity (LQ)</u>	:	5 L
<u>Excepted quantities</u>	:	E1
<u>Packing instructions</u>	:	LP01 P001
<u>Special packing provisions</u>	:	PP1
<u>IBC instruction(s)</u>	:	IBC03
<u>IBC provisions</u>	:	
<u>Instructions for portable tanks and bulk containers</u>	:	T4
<u>Special provisions for portable tanks and bulk containers</u>	:	TP1 TP29
<u>EmS codes</u>	:	F-A, S-F
<u>Stowage and handling</u>	:	Category A
<u>Segregation</u>	:	
<u>Properties and observations</u>	:	

IATA

<u>PCA - Excepted quantities</u>	:	E1
<u>PCA - Limited Quantity - Packing Instructions</u>	:	Y964
<u>PCA - Limited Quantity - Maximum Net Quantity per Package</u>	:	30kgG

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<u>PCA - Packing Instructions</u>	:	964
<u>PCA - Maximum Net Quantity per Package</u>	:	450L
<u>CAO - Packing Instructions</u>	:	964
<u>CAO - Maximum Net Quantity per Package</u>	:	450L
<u>Special Provisions</u>	:	A97 A158 A197
<u>ERG Code</u>	:	9L

14.7 - Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

<u>Substances REACH candidates</u>	None
<u>Substances Annex XIV</u>	None
<u>Substances Annex XVII</u>	None

<u>VOC content</u>	No data available
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- Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work
- Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2 - Chemical Safety Assessment

<u>Chemical safety assessment carried out for the product</u>	- Relevant exposure scenario information for the components of this mixture has been included in this Safety Data Sheet and therefore no annex is provided.
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SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
1	23/12/2022	J Waterfield	See below;
0	23/11/2016	J Waterfield	

SECTION 2: Hazards identification

SECTION 3: Composition / information on ingredients

SECTION 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 14: Transport information

Abbreviations and acronyms

- For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Data sources:

Material Safety Data Sheet, Misc. manufacturers.

Texts of the regulatory sentences

Acute Tox. 2 Inhalation	Acute toxicity (inhalative) - Category 2
Acute Tox. 3 Dermal	Acute toxicity (dermal) - Category 3
Acute Tox. 3 Inhalation	Acute toxicity (inhalative) - Category 3
Acute Tox. 3 Oral	Acute toxicity (oral) - Category 3
Acute Tox. 4 Dermal	Acute toxicity (dermal) - Category 4
Acute Tox. 4 Inhalation	Acute toxicity (inhalative) - Category 4
Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1

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Aquatic Chronic 1	Hazardous to the aquatic environment - Aquatic Chronic 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3
Carc. 1B	Carcinogenicity - Category 1B
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation - Category 2
Flam. Liq. 2	Flammable liquid and vapour. - Category 2
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
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H350	May cause cancer
H370	Causes damage to organs or state all organs affected, if known - state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects
Muta. 2	Germ cell mutagenicity - Category 2
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Corr. 1C	Skin corrosion, Category 1C
Skin Irrit. 2	Irritation, Category 2
Skin Sens. 1	Skin sensitization - Category 1

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Skin Sens. 1A	Skin sensitization - Category 1A
STOT RE 1	STOT-repeated exposure - Category 1
STOT RE 2	STOT-repeated exposure - Category 2
STOT SE 1	STOT-single exposure - Category 1
STOT SE 3 (H335)	STOT-single exposure - Category 3 (H335)

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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