According to 1907/2006/EC (REACH), 453/2010/EU, 2015/830/EU



Hi- Ace 08975



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: Hi- Ace 08975

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

Relevant uses: Colourant in solution. For professional user/industrial user only. Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

Amega Sciences plc Unit 17 Lanchester Way

NN11 8PH Daventry - Northamptonshire - United Kingdom

Phone.: 44 1327 704444 -Fax: +44 (0) 1327 311 226 admin@amega-sciences.com

1.4 Emergency telephone number: +44 (0) 7802844234 (for Emergency ONLY)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Product classified regardless of its extreme pH.

Directive 67/548/EC and Directive 1999/45/EC:

This product was classified in accordance with Directive 67/548/EC and Directive 1999/45/EC, adapting the requirements to Regulation (EC) nº1907/2006 (REACH regulation).

N: R50 - Very toxic to aquatic organisms

Xi: R38 - Irritating to skin, R41 - Risk of serious damage to eyes

CLP Regulation (EC) no 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) no 1272/2008.

Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400 Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412

Eye Dam. 1: Serious eye damage, Category 1, H318 Skin Corr. 1B: Skin corrosion, Category 1B, H314

2.2 Label elements:

CLP Regulation (EC) no 1272/2008:

Danger





Hazard statements:

Aquatic Acute 1: H400 - Very toxic to aquatic life

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

Precautionary statements:

P264: Wash thoroughly after use

P280: Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310: Immediately call a POISON CENTER/doctor

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively

Substances that contribute to the classification

Didecyldimethylammonium chloride (CAS: 7173-51-5); Alcohols, C6-12, ethoxylated (CAS: 68439-45-2)

2.3 Other hazards:



According to 1907/2006/EC (REACH), 453/2010/EU, 2015/830/EU

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SECTION 2: HAZARDS IDENTIFICATION (continued)

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Dye/s in aqueous solution

Components:

In accordance with Annex II of Regulation (EC) nº1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification	Concentration
CAS:	77-92-9	Citric Acid	Self-classified	
EC:	201-069-1 Non-applicable	Directive 67/548/EC	Xi: R36	30 - <50 %
	01-2119457026-42-XXXX	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	>
CAS:	7173-51-5	Didecyldimethylamn	nonium chloride Self-classified	
EC:	230-525-2 612-131-00-6	Directive 67/548/EC	C: R34; N: R50; Xn: R22	5 - <10 %
	01-2119945987-15-XXXX	Regulation 1272/2008	Acute Tox. 3: H301; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Skin Corr. 1B:	3
CAS:	68439-45-2	Alcohols, C6-12, etho	Expression Self-classified	
EC:	Non-applicable Non-applicable	Directive 67/548/EC	Xi: R41; Xn: R22	3 - <5 %
	Non-applicable	Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger	
CAS:	67-63-0	Propan-2-ol	ATP CLP00	
EC: Index:	200-661-7 603-117-00-0	Directive 67/548/EC	F: R11; Xi: R36; R67	3 - <5 %
	01-2119457558-25-XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation,however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, containing flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertization agent. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid projections and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks





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SECTION 7: HANDLING AND STORAGE (continued)

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 0 °C

Maximum Temp.: 40 °C

Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment (EH40/2005 Workplace exposure limits):

Identification	Environmental limits		
Propan-2-ol	WEL (8h)	400 ppm	999 mg/m ³
CAS: 67-63-0	WEL (15 min)	500 ppm	1250 mg/m ³
EC: 200-661-7	Year 2015		

DNEL (Workers):

		Short e	xposure	Long e	Long exposure	
Identification		Systemic	Local	Systemic	Local	
Didecyldimethylammonium chloride	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 7173-51-5	Dermal	Non-applicable	Non-applicable	8.6 mg/kg	Non-applicable	
EC: 230-525-2	Inhalation	Non-applicable	Non-applicable	18.2 mg/m ³	Non-applicable	
Propan-2-ol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 67-63-0	Dermal	Non-applicable	Non-applicable	888 mg/kg	Non-applicable	
EC: 200-661-7	Inhalation	Non-applicable	Non-applicable	500 mg/m ³	Non-applicable	

DNEL (General population):

	Short exposure		Long exposure		
Identification		Systemic	Local	Systemic	Local
Propan-2-ol	Oral	Non-applicable	Non-applicable	26 mg/kg	Non-applicable
CAS: 67-63-0	Dermal	Non-applicable	Non-applicable	319 mg/kg	Non-applicable
EC: 200-661-7	Inhalation	Non-applicable	Non-applicable	89 mg/m ³	Non-applicable

PNEC:

Identification				
Citric Acid	STP	1000 mg/L	Fresh water	0.44 mg/L
CAS: 77-92-9	Soil	33.1 mg/kg	Marine water	0.044 mg/L
EC: 201-069-1	Intermittent	Non-applicable	Sediment (Fresh water)	34.6 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	3.46 mg/kg
Didecyldimethylammonium chloride	STP	0.595 mg/L	Fresh water	0.002 mg/L
CAS: 7173-51-5	Soil	1.4 mg/kg	Marine water	0.0002 mg/L
EC: 230-525-2	Intermittent	0.00029 mg/L	Sediment (Fresh water)	2.82 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0.28 mg/kg
Propan-2-ol	STP	2251 mg/L	Fresh water	140.9 mg/L
CAS: 67-63-0	Soil	28 mg/kg	Marine water	140.9 mg/L
EC: 200-661-7	Intermittent	140.9 mg/L	Sediment (Fresh water)	552 mg/kg
	Oral	160 g/kg	Sediment (Marine water)	552 mg/kg

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	NON-disposable chemical protective gloves	CAT III	EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Face mask	CATII	EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodily protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks	CAT III	EN 13034:2005+A1:2009 EN 168:2001 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk	CAT III	EN ISO 20345:2011 EN 13832-1:2006	Replace boots at any sign of deterioration.

F.- Additional emergency measures

It is not necessary to take additional emergency measures.

Emergency measure	Standards	Emergency measure	Standards
•	ANSI Z358-1 ISO 3864-1:2002	⊢	DIN 12 899 ISO 3864-1:2002
Emergency shower		Eyewash stations	

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 3.32 % weight

V.O.C. density at 20 °C: 39.05 kg/m³ (39.05 g/L)

Average carbon number: 3

Average molecular weight: 60.1 g/mol





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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:

Appearance:

Colour:

Colourless

Odour:

Characteristic

Volatility:

Boiling point at atmospheric pressure: 98 °C

Vapour pressure at 20 °C:

Vapour pressure at 50 °C:

Non-applicable *

Non-applicable *

Non-applicable *

Product description:

Density at 20 °C: 1165 - 1185 kg/m³
Relative density at 20 °C: 1.165 - 1.185

Dynamic viscosity at 20 °C: Non-applicable *

Kinematic viscosity at 20 °C: Non-applicable *

Kinematic viscosity at 40 °C: Non-applicable *

Concentration: Non-applicable *

pH: 0 - 2

Vapour density at 20 °C:

Partition coefficient n-octanol/water 20 °C:

Non-applicable *

Solubility in water at 20 °C:

Non-applicable *

Solubility properties: Miscible

Decomposition temperature: Non-applicable *
Melting point/freezing point: Non-applicable *
Explosive properties: Non-applicable *
Oxidising properties: Non-applicable *

Flammability:

Flash Point: 90 - 100 °C
Autoignition temperature: Non-applicable *
Lower flammability limit: Non-applicable *
Upper flammability limit: Non-applicable *

9.2 Other information:

Surface tension at 20 °C:

Refraction index:

Non-applicable *

Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

- CONTINUED ON NEXT PAGE -



According to 1907/2006/EC (REACH), 453/2010/EU, 2015/830/EU

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SECTION 10: STABILITY AND REACTIVITY (continued)

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

- A.- Ingestion (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
 - Corrosivity/Irritability: Corrosive product, its consumption causes burns destroying the full thickness of fabrics. For more information on the secondary effects of contact with the skin see section 2.
- B- Inhalation (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
 - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
 - Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:





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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Ad	cute toxicity	Genus	
Citric Acid	LD50 oral	5400 mg/kg	Rat	
CAS: 77-92-9	LD50 dermal	>2000 mg/kg		
EC: 201-069-1	LC50 inhalation	>5 mg/L (4 h)		
Alcohols, C6-12, ethoxylated	LD50 oral	1100 mg/kg	Rat	
CAS: 68439-45-2	LD50 dermal	>2000 mg/kg		
EC: Non-applicable	LC50 inhalation	Non-applicable		
Propan-2-ol	LD50 oral	5280 mg/kg	Rat	
CAS: 67-63-0	LD50 dermal	12800 mg/kg	Rat	
EC: 200-661-7	LC50 inhalation	72.6 mg/L (4 h)	Rat	
Didecyldimethylammonium chloride	LD50 oral	238 mg/kg	Rat	
CAS: 7173-51-5	LD50 dermal	3342 mg/kg	Rabbit	
EC: 230-525-2	LC50 inhalation	>5 mg/L (4 h)		

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

Identification		Acute toxicity	Species	Genus
Citric Acid	LC50	1516 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 77-92-9	EC50	160 mg/L (48 h)	N/A	Crustacean
EC: 201-069-1	EC50	Non-applicable		
Didecyldimethylammonium chloride	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 7173-51-5	EC50	0.1 - 1 mg/L (48 h)		Crustacean
EC: 230-525-2	EC50	0.1 - 1 mg/L		Algae
Propan-2-ol	LC50	9640 mg/L (96 h)	Pimephales promelas	Fish
CAS: 67-63-0	EC50	13299 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-661-7	EC50	1000 mg/L (72 h)	Scenedesmus subspicatus	Algae

12.2 Persistence and degradability:

Identification	De	gradability	Biodegradability	
Citric Acid	BOD5	Non-applicable	Concentration	10 mg/L
CAS: 77-92-9	COD	Non-applicable	Period	28 days
EC: 201-069-1	BOD5/COD	Non-applicable	% Biodegradable	97 %
Didecyldimethylammonium chloride	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 7173-51-5	COD	Non-applicable	Period	28 days
EC: 230-525-2	BOD5/COD	Non-applicable	% Biodegradable	0 %
Propan-2-ol	BOD5	1.19 g O2/g	Concentration	100 mg/L
CAS: 67-63-0	COD	2.23 g O2/g	Period	14 days
EC: 200-661-7	BOD5/COD	0.53	% Biodegradable	86 %

12.3 Bioaccumulative potential:





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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
Citric Acid	BCF	3
CAS: 77-92-9	Pow Log	-1.55
EC: 201-069-1	Potential	Low
Didecyldimethylammonium chloride	BCF	81
CAS: 7173-51-5	Pow Log	4.66
EC: 230-525-2	Potential	Moderate
Propan-2-ol	BCF	3
CAS: 67-63-0	Pow Log	0.05
EC: 200-661-7	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Citric Acid	Koc	Non-applicable	Henry	Non-applicable
CAS: 77-92-9	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 201-069-1	Surface tension	2.045E-2 N/m (350.93 °C)	Moist soil	Non-applicable
Didecyldimethylammonium chloride	Koc	440000	Henry	Non-applicable
CAS: 7173-51-5	Conclusion	Immobile	Dry soil	Non-applicable
EC: 230-525-2	Surface tension	Non-applicable	Moist soil	Non-applicable
Propan-2-ol	Koc	1.5	Henry	8.207E-1 Pa·m³/mol
CAS: 67-63-0	Conclusion	Very High	Dry soil	Yes
EC: 200-661-7	Surface tension	2.24E-2 N/m (25 °C)	Moist soil	Yes

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)	
16 05 06*	Laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals	Dangerous	

Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP4 Irritant — skin irritation and eye damage, HP6 Acute Toxicity, HP8 Corrosive

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC, The Waste Regulations 2011, 2011 No. 988). As under 15 01 (2014/955/EU) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) $n^{o}1907/2006$ (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2015 and RID 2015:

According to 1907/2006/EC (REACH), 453/2010/EU, 2015/830/EU



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SECTION 14: TRANSPORT INFORMATION (continued)

14.1 UN number: UN1903

14.2 UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S.

(Didecyldimethylammonium chloride; Didecyldimethylammonium

chloride)

14.3 Transport hazard class(es): 8

Labels: 8

14.4 Packing group: III14.5 Dangerous for the environment:

14.6 Special precautions for user

Special regulations: 274
Tunnel restriction code: E

Physico-Chemical properties: see section 9

Limited quantities: 5 L

14.7 Transport in bulk according to Annex II of Marpol and

the IBC Code:

Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 37-14:

14.1 UN number: UN1903

14.2 UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S.

8

(Didecyldimethylammonium chloride; Didecyldimethylammonium

chloride)

14.3 Transport hazard class(es):

Labels: 8

14.4 Packing group: III

14.5 Dangerous for the environment: Yes

14.6 Special precautions for user

Special regulations: 223, 274
EmS Codes: F-A, S-B
Physico-Chemical properties: see section 9

Limited quantities: 5 |

14.7 Transport in bulk according Non-a

to Annex II of Marpol and

the IBC Code:

Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2015:



14.1 UN number: UN1903

14.2 UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S.

(Didecyldimethylammonium chloride; Didecyldimethylammonium

chloride)

14.3 Transport hazard class(es): 8

Labels: 8

14.4 Packing group: III

14.5 Dangerous for the environment: Yes

14.6 Special precautions for user

Physico-Chemical properties: see section 9 **14.7 Transport in bulk according** Non-applicable

to Annex II of Marpol and

the IBC Code:

SECTION 15: REGULATORY INFORMATION





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SECTION 15: REGULATORY INFORMATION (continued)

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

Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains Didecyldimethylammonium chloride.

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Citric Acid (Product-type 1); Didecyldimethylammonium chloride (Product-type 1, 2, 3, 4, 6, 8, 10, 11, 12); Propan-2-ol (Product-type 1, 2, 4)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Contains Didecyldimethylammonium chloride

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009, 2009 No. 716

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885 Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits

The Waste Regulations 2011, 2011 No. 988

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EU) No 453/2010, Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

COMPOSITION/INFORMATION ON INGREDIENTS:

· Added Content

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

Citric Acid (77-92-9)

Alcohols, C6-12, ethoxylated (68439-45-2)

Didecyldimethylammonium chloride (7173-51-5)

· Removed Content

Lignosulfonic acid, salt of (8062-15-5)

CLP Regulation (EC) no 1272/2008:

- · Pictograms
- · Hazard statements
- · Precautionary statements

TRANSPORT INFORMATION:

- · UN number
- · Packing group

Texts of the legislative phrases mentioned in section 2:

H318: Causes serious eye damage

H400: Very toxic to aquatic life

H412: Harmful to aquatic life with long lasting effects

H314: Causes severe skin burns and eye damage

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

According to 1907/2006/EC (REACH), 453/2010/EU, 2015/830/EU



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SECTION 16: OTHER INFORMATION (continued)

Directive 67/548/EC and Directive 1999/45/EC:

R11: Highly flammable R22: Harmful if swallowed R34: Causes burns R36: Irritating to eyes

R41: Risk of serious damage to eyes R50: Very toxic to aquatic organisms

R67: Vapours may cause drowsiness and dizziness

CLP Regulation (EC) nº 1272/2008:

Acute Tox. 3: H301 - Toxic if swallowed Acute Tox. 4: H302 - Harmful if swallowed Aquatic Acute 1: H400 - Very toxic to aquatic life

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects

Eye Dam. 1: H318 - Causes serious eye damage Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Liq. 2: H225 - Highly flammable liquid and vapour

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

STOT SE 3: H336 - May cause drowsiness or dizziness

Classification procedure:

Eye Dam. 1: Calculation method Aquatic Acute 1: Calculation method Aquatic Chronic 3: Calculation method Skin Corr. 1B: Calculation method

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://esis.jrc.ec.europa.eu http://echa.europa.eu http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50

CL50: Lethal Concentration 50 EC50: Effective concentration 50

Log-POW: Octanol—water partition coefficient Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.