



SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Deodorising Disinfectant DP20 Citrus Muscle

Revision 46

Revision date 2021-06-14

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

1.1. Product identifier

Product name	Deodorising Disinfectant DP20 Citrus Muscle
Product code	QAFS005

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

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC35] Washing and cleaning products (including solvent based products);
Description	A concentrated Quaternary disinfectant deodoriser specially formulated for the routine hygienic cleaning of hard surfaces.

1.3. Details of the supplier of the safety data sheet

Company	Superfine Manufacturing Ltd
Address	Orchardbank Industrial Estate Forfar Angus Scotland DD8 1TD
Web	www.superfine.co.uk
Telephone	Tel: 01307 463538
Fax	Fax: 01307 468505
Email address of the competent person	nigel@superfine.co.uk

1.4. Emergency telephone number

Emergency telephone number	01307 463538 8.30am to 17.00pm 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
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	EUH208; Skin Corr. 1B; H314; Aquatic Acute 1: H400; Aquatic Chronic 2: H411;
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2.2. Label elements

Hazard pictograms	
Signal Word	Danger

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2.2. Label elements

Hazard Statement	EUH208 - Contains terpinolene, D-Limonene. May produce an allergic reaction. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Precautionary Statement: Prevention	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P302+P350 - IF ON SKIN: Gently wash with plenty of soap and water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved disposal site, in accordance with local regulations.
SUPPLEMENTAL HAZARD INFORMATION	Ingredients as required by Regulation (EC) No 648/2004: 15-30% Cationic Surfactants, 5 - 15% Non-ionic surfactants, 9.95%w/w Benzalkonium Chloride, EDTA and salts thereof, Parfum, Limonene, Linalool, Geraniol, Citronellol.

2.3. Other hazards

Other hazards	This mixture is not classified as PBT or vPvB according to current EU criteria.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
C9-11 Alcohol Ethoxylate with EO		68439-45-2			1 - 10%	Acute Tox. 4: H302; Eye Dam. 1: H318;
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides		68424-85-1	939-350-2	01-2119970550-39	1 - 10%	Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
4-Isopropylidene-1-methylcyclohexane		586-62-9	209-578-0		0 - 0.5%	Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Sens. 1: H317; Aquatic Chronic 1: H410;
D-Limonene	601-029-00-7	5989-27-5	227-813-5		0 - 0.5%	Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
Octanal		124-13-0	204-683-8	01-2119638274-38	0 - 0.5%	Flam. Liq. 3: H226; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Aquatic Chronic 2: H411;
1-Isopropyl-4-methylbenzene		99-87-6	202-796-7		0 - 0.5%	Flam. Liq. 3: H226; Asp. Tox. 1: H304; Repr. 2: H361; Aquatic Chronic 2: H411;
2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene (Alpha-Pinene)		80-56-8	201-291-9		0 - 0.5%	Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane		470-82-6	207-431-5		0 - 0.5%	Flam. Liq. 3: H226; Skin Sens. 1: H317;
propan-2-ol	603-117-00-0	67-63-0	200-661-7	01-2119457558-25	1 - 10%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;
2,2, Dimethyl-3-Methylene Bicyclo (2,2,1) Heptane		79-92-5	201-234-8	01-2119446293-40	0 - 0.5%	Flam. Sol. 2: H228; Eye Irrit. 2: H319; Aquatic Chronic 1: H410;
Hexyl Acetate		142-92-7	205-572-7		0 - 0.5%	Flam. Liq. 3: H226;
7-methyl-3-methyleneocta-1,6-diene		123-35-3	204-622-5		0 - 0.5%	Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Irrit. 2: H315; Eye Irrit. 2: H319;
6,6-Dimethyl-2-methylenebicyclo[3.1.1]heptane		127-91-3	204-872-5		0 - 0.5%	Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 1: H410;

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3.2. Mixtures

	<p>Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, CAS No. 68424-85-1 - M Factor (Acute) = 10, M Factor (Chronic) = 1.</p> <p>4-Isopropylidene-1-methylcyclohexene, CAS No. 586-62-9 - M Factor = 1.</p> <p>D-Limonene, CAS No. 5989-27-5 - M Factor = 1.</p> <p>2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene, CAS No. 80-56-8 - M Factor = 1.</p> <p>2,2-Dimethyl-3-Methylene Bicyclo (2,2,1) Heptane, CAS No. 79-92-5 - M Factor = 1.</p>
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Further information

Product Shelf Life	RECOMMENDED SHELF LIFE 1 YEAR FROM DATE OF DELIVERY.
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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed.
Skin contact	Remove contaminated clothing. Wash off immediately with plenty of soap and water.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Drink plenty of water to dilute ingested product.

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

Inhalation	May cause irritation to respiratory system. May cause sensitisation by inhalation.
Eye contact	Risk of serious damage to eyes.
Skin contact	Causes burns.
Ingestion	May cause irritation to mucous membranes.

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

Inhalation	Move the exposed person to fresh air. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Seek medical attention. Show this safety data sheet to the doctor in attendance.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed. Seek medical attention. Show this safety data sheet to the doctor in attendance.
Skin contact	Remove contaminated clothing immediately. Rinse immediately with plenty of water. Seek medical attention. Show this safety data sheet to the doctor in attendance.
Ingestion	Drink 1 to 2 glasses of water. Seek medical attention. Show this safety data sheet to the doctor in attendance.

General information

	If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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Further information

	In the event of a fire and/or explosion do not breath fumes. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment.

6.2. Environmental precautions

Advise local authorities if large spills cannot be contained.

6.3. Methods and material for containment and cleaning up

For large spills: Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water. For small spills: Flush down the drain with plenty of water.

6.4. Reference to other sections

See section 2, 7, 8, 13 for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Do not breathe vapours or spray mist. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry area. Keep container tightly closed. Keep out of the reach of children. Store in original container.

7.3. Specific end use(s)

A concentrated Quaternary disinfectant deodoriser specially formulated for the routine hygienic cleaning of hard surfaces.

Suitable packaging

Plastic containers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure controls.

8.1.1. Exposure Limit Values

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8.1.1. Exposure Limit Values

1,1'-Oxydibenzene (Diphenyl ether (vapour))	WEL 8-hr limit ppm: 1 WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 7.1 WEL 15 min limit mg/m3: - WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -
2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene (Alpha-Pinene)	WEL 8-hr limit ppm: 25 WEL 15 min limit ppm: 50 WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 140 WEL 15 min limit mg/m3: 300 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -
6,6-Dimethyl-2-methylenebicyclo[3.1.1]heptane	WEL 8-hr limit ppm: 25 WEL 15 min limit ppm: 50 WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 140 WEL 15 min limit mg/m3: 300 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -
propan-2-ol	WEL 8-hr limit ppm: 400 WEL 15 min limit ppm: 500 WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 999 WEL 15 min limit mg/m3: 1250 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -

DNEL: Derived no-effect level.

Exposure Pattern - Workers

2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	Long-term - inhalation - Systemic effects 5.98 mg/m ³
propan-2-ol	Long-term - inhalation - Systemic effects 500 mg/m ³ Long-term - dermal - Systemic effects 888 mg/kg
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Long-term - inhalation - Systemic effects 3.96 mg/m ³ Long-term - dermal - Systemic effects 5.7 mg/kg

Exposure Pattern - General population


2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	Long-term - inhalation - Systemic effects 1.06 mg/m ³ Long-term - oral - Systemic effects 0.31 mg/kg
propan-2-ol	Long-term - inhalation - Systemic effects 89 mg/m ³ Long-term - dermal - Systemic effects 319 mg/kg Long-term - oral - Systemic effects 26 mg/kg
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Long-term - inhalation - Systemic effects 1.64 bw/day Long-term - dermal - Systemic effects 3.4 mg/kg Long-term - oral - Systemic effects 3.4 mg/kg

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8.2. Exposure controls

	
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Use appropriate personal protective equipment. Wear suitable protective clothing and eye/face protection.
8.2.1. Appropriate engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure eyewash stations and safety showers are close to the workstation location.
Eye / face protection	Avoid contact with eyes. If splashes are likely to occur, wear: safety glasses with side-shields.
Skin protection - Handprotection	Rubber gloves.
Respiratory protection	No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.
8.2.3. Environmental exposure controls	Prevent further leakage or spillage if safe to do so.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Citrus
Odour threshold	No data available
pH	9.5 - 10.8
Melting point	Not applicable.
Initial boiling point	Not applicable.
Flash point	No data available
Evaporation rate	Not applicable.
Flammability (solid, gas)	No data available
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	0.998 - 1.005 g/cm ³
Partition coefficient	Not applicable.
Autoignition temperature	No data available
Viscosity	< 100 centipoise
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

9.2. Other information

Conductivity	Not applicable.
Surface tension	Not applicable.
Gas group	Not applicable.
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	No data available

SECTION 10: Stability and reactivity

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10.1. Reactivity

	Stable under normal conditions. No specific reactivity hazards associated with this product.
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10.2. Chemical stability

	Stable under normal conditions. No particular stability concerns.
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10.3. Possibility of hazardous reactions

	Strong acids. Strong oxidising agents.
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10.4. Conditions to avoid

	Protect from frost.
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10.5. Incompatible materials

	No incompatible groups noted.
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10.6. Hazardous decomposition products

	No Hazardous decomposition products when stored and handled correctly. Burning produces irritating, toxic and obnoxious fumes.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in Regulation (EC) No 1272/2008 (CLP). based on available data the classification criteria are not met. Oral ATE = 2990.4966 mg/kg. Inhalation - Dust/Mist ATE = 256.4103 mg/l.
Skin corrosion/irritation	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	based on available data the classification criteria are not met.
Germ cell mutagenicity	based on available data the classification criteria are not met.
Carcinogenicity	based on available data the classification criteria are not met.
Reproductive toxicity	based on available data the classification criteria are not met.
STOT-single exposure	based on available data the classification criteria are not met.
STOT-repeated exposure	based on available data the classification criteria are not met.
Aspiration hazard	based on available data the classification criteria are not met.
Repeated or prolonged exposure	based on available data the classification criteria are not met.

11.1.2. Mixtures

	No data available.
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11.1.3. Hazard Information

	No data available.
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11.1.4. Toxicological Information

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11.1.4. Toxicological Information

2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	Oral Rat LD50: 3500 mg/kg	
4-Isopropylidene-1-methylcyclohexene	Oral Rat LD50: 3850 mg/kg	
6,6-Dimethyl-2-methylenebicyclo[3.1.1]heptane	Dermal Rat LD50: 133848.9mg/kg	Oral Rat LD50: 37287.23mg/kg
C9-11 Alcohol Ethoxylate with EO	Oral Rat LD50: 1100 mg/kg	
propan-2-ol	Inhalation Rat LC50/6 h: >10000ppm Dermal Rabbit LD50: 13900 mg/kg	Oral Rat LD50: 5840 mg/kg
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Oral Rat LD50: 397.5mg/kg	Dermal Rabbit LD50: 3412 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

propan-2-ol	Daphnia EC50/48h: 10000.0000 mg/l Fathead minnows LC50/96h: 9640 mg/l	Fish LC50/96h: 4200.0000 mg/l
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Daphnia EC50/48h: 0.0160 mg/l Sheephead minnows LC50/96h: 1.28 mg/l	Fish LC50/96h: 0.5150 mg/l Lepomis_Macrochirus LC50/96h: 0.515 mg/l

12.2. Persistence and degradability

	Substance biodegrades at a moderate rate and inherently biodegradable according to the OECD guide lines.
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12.3. Bioaccumulative potential

	The product is not bioaccumulating.
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Partition coefficient

	Deodorising Disinfectant DP20 Citrus Muscle Not applicable.	propan-2-ol 0.05 log P
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12.4. Mobility in soil

	This product is soluble in water.
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12.5. Results of PBT and vPvB assessment

	This mixture is not classified as PBT or vPvB according to current EU criteria.
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12.6. Other adverse effects

	No data available.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

	Dispose of waste and residues in accordance with local authority requirements.
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General information

	Dispose of in compliance with all local and national requirements.
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Disposal of packaging

	Do NOT reuse empty containers. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.
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SECTION 14: Transport information

Hazard pictograms



14.1. UN number

UN1903

14.2. UN proper shipping name

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Alkyl Dimethyl Benzyl Ammonium chloride)

14.3. Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

14.4. Packing group

Packing group III

14.5. Environmental hazards

Environmental hazards	Yes
Marine pollutant	Yes

14.6. Special precautions for user

No additional special precautions.

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

Not applicable.

ADR/RID

Hazard ID	80
Tunnel Category	(E)

IMDG

EmS Code	F-A S-B
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IATA

Packing Instruction (Cargo)	856
Maximum quantity	60 L
Packing Instruction (Passenger)	852
Maximum quantity	5 L

SECTION 15: Regulatory information

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

Regulations	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas: 3 - 3.2. Mixtures. 11 - Acute toxicity. 11 - Repeated or prolonged exposure. 12 - 12.4. Mobility in soil. 12 - 12.3. Bioaccumulative potential. 12 - 12.5. Results of PBT and vPvB assessment.
Data sources	Classification and Procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008: Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. - Calculation Method. Aquatic Acute 1: H400 - Very toxic to aquatic life. - Calculation Method. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. - Calculation Method.
Text of Hazard Statements in Section 3	Acute Tox. 4: H302 - Harmful if swallowed. Eye Dam. 1: H318 - Causes serious eye damage. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Flam. Liq. 3: H226 - Flammable liquid and vapour. Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. Skin Sens. 1: H317 - May cause an allergic skin reaction. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. Repr. 2: H361 - Suspected of damaging fertility or the unborn child . Flam. Liq. 2: H225 - Highly flammable liquid and vapour. STOT SE 3: H336 - May cause drowsiness or dizziness. Flam. Sol. 2: H228 - Flammable solid.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. 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 other process.