

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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MM Bond Cartridge A

Revision 4
Revision date 2015-06-04

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

1.1. Product identifier	
Product name	Sol-X MM Bond Cartridge A
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC1] Adhesives, sealants;
1.3. Details of the supplier of the safety data sheet	
Company	Central Solutions (GB) Ltd
Address	Sol-X House Windmill Lane Norton Doncaster South Yorkshire DN6 9AT
Web	www.solxsolutions.com
Telephone	+44 (0)1302 708895
Fax	+44 (0)1302 708895
1.4. Emergency telephone number	
Emergency telephone number	+44(0)1302 708895
Company	Central Solutions (Head Office) (Office Hours Only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture	
2.1.1. Classification - 1999/45/EC	F; R11 C; R34 Xi; R37-43 Symbols: F: Highly flammable. C: Corrosive.
Main hazards	Highly flammable. Causes burns. Irritating to respiratory system. May cause sensitisation by skin contact.
2.1.2. Classification - EC 1272/2008	Flam. Liq. 2: H225; Skin Corr. 1A: H314; Skin Sens. 1: H317; STOT SE 3: H335; Aquatic Chronic 3: H412;
2.2. Label elements	
Hazard pictograms	
Signal Word	Danger
Hazard Statement	Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT SE 3: H335 - May cause respiratory irritation. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

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2.2. Label elements

Precautionary Statement: Prevention	<p>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P233 - Keep container tightly closed.</p> <p>P240 - Ground/bond container and receiving equipment.</p> <p>P241 - Use explosion-proof electrical/ventilating/lighting// equipment.</p> <p>P242 - Use only non-sparking tools.</p> <p>P243 - Take precautionary measures against static discharge.</p> <p>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P264 - Wash thoroughly after handling.</p> <p>P271 - Use only outdoors or in a well-ventilated area.</p> <p>P272 - Contaminated work clothing should not be allowed out of the workplace.</p> <p>P273 - Avoid release to the environment.</p> <p>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</p>
Precautionary Statement: Response	<p>P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>P302+P352 - IF ON SKIN: Wash with plenty of water/ .</p> <p>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 -Immediately call a POISON CENTER/doctor/ .</p> <p>P312 - Call a POISON CENTER/doctor/ /if you feel unwell.</p> <p>P321 - Specific treatment (see on this label).</p> <p>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P363 - Wash contaminated clothing before reuse.</p> <p>P370+P378 - In case of fire: Use to extinguish.</p>
Precautionary Statement: Storage	<p>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403+P235 - Store in a well-ventilated place. Keep cool.</p> <p>P405 - Store locked up.</p>
Precautionary Statement: Disposal	<p>P501 - Dispose of contents/container to to hazardous waste collection point. Refer to section 13.1 for waste treatment methods.</p>

2.3. Other hazards

Other hazards	This product does not contain any substances classified as PBT or vPvB.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

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3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Cumene hydroperoxide	617-002-00-8	80-15-9	201-254-7	01-2119475796-19	1 - 10%	O; R7 T; R23 Xn; R21/22-48/20/22 C; R34 N; R51/53	
Methyl methacrylate	607-035-00-6	80-62-6	201-297-1	01-2119452498-28	50 - 60%	F; R11 Xi; R37/38 R43	
Triethyleneglycol Dimethacrylate		109-16-0	203-652-6	01-2119969287-21	1 - 10%	Xi; R43	
2-Methylpropenoic acid (Methacrylic acid)	607-088-00-5	79-41-4	201-204-4	01-2119463884-26	1 - 10%	Xn; R21/22 C; R35	
Cumene	601-024-00-X	98-82-8	202-704-5		0 - 0.5%	R10 Xn; R65 Xi; R37 N; R51/53	
Para-Toluene Sulfo Chloride		000098-59-9			1 - 10%	Xi; R38-41	
6,6'-ditert-butyl-4,4'-thiodi-m-cresol (6,6'-Di-tert-butyl-4,4'-thiodi-m-96-6 9-5 -10 -20 cresol)		96-69-5	202-525-2		0 - 0.5%	Xi; R43 N; R50/53	
Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol) Defoamer		128-37-0		01-2119555270-46	1 - 10%	R53	
					0 - 0.5%	N; R51/53 R10-66-67	
Hydrocarbon Wax (Paraffin wax, fume)		8002-74-2	232-315-6		0 - 0.5%		

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Cumene hydroperoxide	617-002-00-8	80-15-9	201-254-7	01-2119475796-19	1 - 10%	Org. Perox. EF: H242; Acute Tox. 3: H331; Acute Tox. 4: H312; Acute Tox. 4: H302; STOT RE 2: H373; Skin Corr. 1B: H314; Aquatic Chronic 2: H411;	
Methyl methacrylate	607-035-00-6	80-62-6	201-297-1	01-2119452498-28	50 - 60%	Flam. Liq. 2: H225; STOT SE 3: H335; Skin Irrit. 2: H315; Skin Sens. 1: H317;	
Propylidynetrimethanol, ethoxylated, esters with acrylic acid		28961-43-5	500-066-5		0.5 - 1%	Skin Sens. 1: H317; Eye Irrit. 2: H319;	
Triethyleneglycol Dimethacrylate		109-16-0	203-652-6	01-2119969287-21	1 - 10%	Skin Sens. 1: H317;	
2-Methylpropenoic acid (Methacrylic acid)	607-088-00-5	79-41-4	201-204-4	01-2119463884-26	1 - 10%	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1A: H314;	
Para-Toluene Sulfo Chloride		000098-59-9			1 - 10%	Met. Corr. 1: H290; Skin Irrit. 2: H315; Eye Dam. 1: H318;	
Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol) Defoamer		128-37-0		01-2119555270-46	1 - 10%	Aquatic Chronic 1: H410;	
					0 - 0.5%	Flam. Liq. 3: H226; STOT SE 3: H336; Aquatic Chronic 2: H411;	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Keep affected person warm and at rest. get medical attention immediately.
Eye contact	Remove the affected person from the source of contamination immediately. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Immediate medical attention is required.
Skin contact	Remove the affected person from the source of contamination immediately. Remove contaminated clothing. Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly. Move the exposed person to fresh air. Keep the affected person warm and at rest. If swallowed, seek medical advice immediately and show this container or label.

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

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

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Inhalation of vapour may cause shortness of breath.
Eye contact	May cause irritation to eyes. May cause irritation to mucous membranes.
Skin contact	Irritating to skin.
Ingestion	Ingestion causes burns to the respiratory tract.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use as appropriate: Carbon dioxide (CO ₂), Dry chemical, Foam.
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5.2. Special hazards arising from the substance or mixture

	Corrosive. . Burning produces irritating, toxic and obnoxious fumes. Vapour may travel considerable distance to source of ignition and flash back.
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5.3. Advice for firefighters

	Self-contained breathing apparatus. Wear protective clothing. In case of fire and/or explosion do not breathe fumes. Control run off water by containing and keeping it out of sewers and watercourses.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Eliminate all sources of ignition. Wear suitable protective equipment.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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6.4. Reference to other sections

	Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind, keeping bystanders also upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak side up to prevent escape of liquid.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Use explosion proof equipment. Keep away from sources of ignition - No smoking.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.
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7.3. Specific end use(s)

	Industrial use resulting in manufacture of another substance (use of intermediates). Industrial uses: Uses of substances as such or in preparations at industrial sites.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

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8.1.1. Exposure Limit Values

<p>2-Methylpropenoic acid (Methacrylic acid)</p>	<p>WEL 8-hr limit ppm: 20</p> <p>WEL 15 min limit ppm: 40</p> <p>WEL 8-hr limit mg/m3 total - inhalable dust:</p> <p>WEL 8-hr limit mg/m3 total - respirable dust:</p>	<p>WEL 8-hr limit mg/m3: 72</p> <p>WEL 15 min limit mg/m3: 143</p> <p>WEL 15 min limit mg/m3 total - inhalable dust:</p> <p>WEL 15 min limit mg/m3 total - respirable dust:</p>
<p>6,6'-ditert-butyl-4,4'-thiodi-m-cresol (6,6'-Di-tert-butyl-4,4'-thiodi-m-9 6-69-5 -10 -20 cresol)</p>	<p>WEL 8-hr limit ppm: -</p> <p>WEL 15 min limit ppm: -</p> <p>WEL 8-hr limit mg/m3 total - inhalable dust:</p> <p>WEL 8-hr limit mg/m3 total - respirable dust:</p>	<p>WEL 8-hr limit mg/m3: 10</p> <p>WEL 15 min limit mg/m3: 20</p> <p>WEL 15 min limit mg/m3 total - inhalable dust:</p> <p>WEL 15 min limit mg/m3 total - respirable dust:</p>
<p>Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol)</p>	<p>WEL 8-hr limit ppm: -</p> <p>WEL 15 min limit ppm: -</p> <p>WEL 8-hr limit mg/m3 total - inhalable dust:</p> <p>WEL 8-hr limit mg/m3 total - respirable dust:</p>	<p>WEL 8-hr limit mg/m3: 10</p> <p>WEL 15 min limit mg/m3: -</p> <p>WEL 15 min limit mg/m3 total - inhalable dust:</p> <p>WEL 15 min limit mg/m3 total - respirable dust:</p>
<p>Cumene</p>	<p>WEL 8-hr limit ppm: 25</p> <p>WEL 15 min limit ppm: 50</p> <p>WEL 8-hr limit mg/m3 total - inhalable dust:</p> <p>WEL 8-hr limit mg/m3 total - respirable dust:</p>	<p>WEL 8-hr limit mg/m3: 125</p> <p>WEL 15 min limit mg/m3: 250</p> <p>WEL 15 min limit mg/m3 total - inhalable dust:</p> <p>WEL 15 min limit mg/m3 total - respirable dust:</p>
<p>Hydrocarbon Wax (Paraffin wax, fume)</p>	<p>WEL 8-hr limit ppm: -</p> <p>WEL 15 min limit ppm: -</p> <p>WEL 8-hr limit mg/m3 total - inhalable dust:</p> <p>WEL 8-hr limit mg/m3 total - respirable dust:</p>	<p>WEL 8-hr limit mg/m3: 2</p> <p>WEL 15 min limit mg/m3: 6</p> <p>WEL 15 min limit mg/m3 total - inhalable dust:</p> <p>WEL 15 min limit mg/m3 total - respirable dust:</p>
<p>Methyl methacrylate</p>	<p>WEL 8-hr limit ppm: 50</p> <p>WEL 15 min limit ppm: 100</p> <p>WEL 8-hr limit mg/m3 total - inhalable dust:</p> <p>WEL 8-hr limit mg/m3 total - respirable dust:</p>	<p>WEL 8-hr limit mg/m3: 208</p> <p>WEL 15 min limit mg/m3: 416</p> <p>WEL 15 min limit mg/m3 total - inhalable dust:</p> <p>WEL 15 min limit mg/m3 total - respirable dust:</p>

8.2. Exposure controls

<p>8.2.1. Appropriate engineering controls</p> <p>8.2.2. Individual protection measures</p> <p>Eye / face protection</p>	<div style="text-align: center;">  </div> <p>Ensure adequate ventilation of the working area.</p> <p>Wear chemical protective clothing. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash immediately with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes wet or contaminated. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.</p> <p>Approved safety goggles. Face shield. Provide eye wash station.</p>
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8.2. Exposure controls

Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Gel
Colour	White
Odour	Strong
Oxidising properties	No data available
Odour threshold	No data available
pH	No data available
Melting point	No data available
Freezing Point	No data available
Initial boiling point	= 101 °C
Flash point	= 10 °C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	= 0.98 (H ₂ O = 1 @ 20 °C)
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	> 500000 mPas (Cone & Plate)
Explosive properties	No data available
Solubility	No data available

9.2. Other information

Benzene Content	Not applicable.
Conductivity	No data available
Gas group	No data available
Lead content	Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

	Avoid sparks, flames, heat and sources of ignition.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	Oxidising agents.
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10.4. Conditions to avoid

	Heat, sparks and open flames. Do NOT allow to freeze. Keep away from strong acids, alkalis and organic peroxides/hydroperoxides.
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10.5. Incompatible materials

	Alkalis. Strong acids. Strong oxidising agents.
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10.6. Hazardous decomposition products

	Burning produces irritating, toxic and obnoxious fumes.
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SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Skin corrosion/irritation	Causes burns.
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11.1.4. Toxicological Information

2-Methylpropenoic acid	Oral Rat LD50: 1320mg/kg	Dermal Rabbit LD50: 500mg/kg
6,6'-ditert-butyl-4,4'-thiodi-m-cresol	Oral Rat LD50: 2345mg/kg	Dermal Rabbit LD50: >5010mg/kg
Butylated Hydroxytoluene	Oral Rat LD50: 1700mg/kg Dermal Guinea Pig LD50: >8000mg/kg	Oral Mouse LD50: 800-1600mg/kg
Cumene	Dermal Rat LD50: 12.3mg/kg	Oral Rat LD50: 2910mg/kg
Cumene hydroperoxide	Inhalation Rat LC50/4 h: 220ppm	Oral Rat LD50: 382mg/kg
Hydrocarbon Wax	Oral Rat LD50: 15.900,00mg/kg	
Methyl methacrylate	Dermal Rat LD50: 5000mg/kg	
Para-Toluene Sulfo Chloride	Oral Rat LD50: 4680mg/kg	Dermal Rabbit LD50: >5010 mg/kg
Triethyleneglycol Dimethacrylate	Oral Mouse LD50: >200mg/kg body weight	

11.1.13. Other information

	Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapour concentrations.
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SECTION 12: Ecological information

12.1. Toxicity

2-Methylpropenoic acid	Daphnia EC50/48h: 130.0000 mg/l	Rainbow trout LC50/96h: 85mg/l
6,6'-ditert-butyl-4,4'-thiodi-m-cresol	Daphnia EC50/48h: 0.1600 mg/l	Green algae EC50/96h: 126mg/l
Butylated Hydroxytoluene	Daphnia EC50/48h: 1.4400 mg/l	
Cumene	Fish LC50/96h: 6.3200 mg/l	
Cumene hydroperoxide	Fish LC50/96h: 3.9000 mg/l	
Methyl methacrylate	Daphnia EC50/48h: 69 mg/l	Fathead minnows LC50/96h: 130mg/l
Para-Toluene Sulfo Chloride	Daphnia EC50/48h: 70.0000 mg/l Daphnia LC50/24h: >2500mg/l	Algae EC50/72h: 100 Bacteria EC10/18h: 114mg/l
Triethyleneglycol Dimethacrylate	Fish LC50/96h: 16.4 mg/l	

	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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12.2. Persistence and degradability

	The product is potentially degradable.
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12.3. Bioaccumulative potential

	No data is available on this product.
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Partition coefficient

	M100 Part A No data available
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12.4. Mobility in soil

	No data is available on this product.
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12.5. Results of PBT and vPvB assessment

	This product does not contain any substances classified as PBT or vPvB.
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12.6. Other adverse effects

	May cause long-term adverse effects in the environment.
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SECTION 13: Disposal considerations

General information

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General information

Dispose of in compliance with all local and national regulations.

SECTION 14: Transport information

Hazard pictograms



14.1. UN number

UN2924

14.2. UN proper shipping name

FLAMMABLE LIQUID, CORROSIVE, N.O.S.

14.3. Transport hazard class(es)

ADR/RID	3
Subsidiary risk	8
IMDG	3
Subsidiary risk	8
IATA	3
Subsidiary risk	8

14.4. Packing group

Packing group II

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

ADR/RID

Hazard ID	338
Tunnel Category	(D/E)

IMDG

EmS Code F-E S-C

IATA

Packing Instruction (Cargo)	363
Maximum quantity	5 L
Packing Instruction (Passenger)	352
Maximum quantity	1 L

SECTION 15: Regulatory information

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. 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

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

Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas.: 2 - 2.1. Classification of the substance or mixture. 2 - Precautionary Statement: Disposal. 12 - 12.1. Toxicity. 15 - Risk phrases.
Text of risk phrases in Section 3	R7 - May cause fire. R10 - Flammable R11 - Highly flammable. R21/22 - Harmful in contact with skin and if swallowed. R23 - Toxic by inhalation. R34 - Causes burns. R35 - Causes severe burns. R37/38 - Irritating to respiratory system and skin. R37 - Irritating to respiratory system. R38 - Irritating to skin. R41 - Risk of serious damage to eyes. R43 - May cause sensitisation by skin contact. R48/20/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R53 - May cause long-term adverse effects in the aquatic environment. R65 - Harmful: may cause lung damage if swallowed. R66 - Repeated exposure may cause skin dryness or cracking. R67 - Vapours may cause drowsiness and dizziness.
Text of Hazard Statements in Section 3	Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT SE 3: H335 - May cause respiratory irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H302 - Harmful if swallowed. Acute Tox. 4: H312 - Harmful in contact with skin. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. Met. Corr. 1: H290 - May be corrosive to metals. Eye Dam. 1: H318 - Causes serious eye damage. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Flam. Liq. 3: H226 - Flammable liquid and vapour. STOT SE 3: H336 - May cause drowsiness or dizziness. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
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.