

B Component EP 4200 Primer**Safety Data Sheet**

pursuant to Regulation (EC) No 453/2010

Publication date: 03/08/2021

Revision date: // Version: 1.0

SECTION 1: Identification of the substance or mixture and of the company/undertaking				
1.1	Product identification Product form: Mixture Product code: Dutch Resin Component B, EP 4200 Filling mortar Product group: EP Flooring			
1,2	Relevant identified use Main usage category Industrial/Professional use spec. Use of the substance or mixture; Forms of use that are advised against	Industrial use For professional use only Flooring No additional information available		
1.3	Dutch Resin Group P.O. Box 1074 7301 BH Apeldoorn T +31 (0)557850749 info@dutchresingroup.nl	Visiting address Gladsaxe 19 Apeldoorn		
1.4	Emergency number: T +31 (0)557850749 This number is only available during office hours.			
	Land	Official advisory body	Address	Emergency number
	NETHERLANDS	National Poisons Information Center. University Medical Center Utrecht, The National Poisons Information Center (NVIC) informs doctors, veterinarians, pharmacists, and other healthcare professionals about the possible health effects and treatment options for poisonings. The NVIC is available for this purpose day and night, both by telephone and via the internet.	P.O. Box 85500 3508 GA Utrecht	+31 30 274 88 88
SECTION 2: Identification of hazards				
2.1	Classification of the substance or mixture Criteria Regulation CE 1272/2008 (CLP): Warning, Acute Tox. 4, Harmful if swallowed. Warning, Acute Tox. 4, Harmful if inhaled. Danger, Skin Corr. 1B, Causes severe burns and eye damage. Danger, Eye Dam. 1, Causes serious eye damage. Warning, Skin Sens. 1, May cause an allergic skin reaction. Aquatic Chronic 3, Harmful to aquatic organisms, with long-lasting effects. Physicochemical effects harmful to human health and the environment: GHS05 GHS07			


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2.2	Labeling elements			
	<p>Symbols:</p> <div style="text-align: center;">  </div> <p>Danger</p> <p>Hazard statements:</p> <p>H302+H332 Harmful if swallowed and if inhaled. H314 Causes severe burns and eye damage. H317 May cause an allergic skin reaction. H412 Harmful to aquatic organisms, with long-lasting effects.</p> <p>Safety recommendations:</p> <p>P260 Do not breathe dust/fumes/gas/mist/vapour/spray P261 Avoid inhalation of dust/fumes/gas/mist/vapors/spray. P264 After working with this product ... wash thoroughly P270 Do not eat, drink or smoke while using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not leave the work area. P273 Avoid release into the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301+P312 IF SWALLOWED: if you feel unwell, consult a POISON CENTER/doctor/... P301+P330+P331 IF SWALLOWED: rinse mouth — DO NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of water/... P303+P361+P353 IF ON SKIN (or hair): Remove contaminated clothing immediately. Rinse/shower skin with water.</p> <p>P304+P340 AFTER INHALATION: move the person to fresh air and ensure they can breathe easily.</p> <p>P305+P351+P338 IF IN CONTACT WITH EYES: rinse carefully with water for several minutes; remove contact lenses, if possible; continue rinsing. P310 Immediately consult a POISON CENTER/doctor/... P321 Specific treatment required (see ... on this label). P333+P313 If skin irritation or rash occurs: consult a doctor. P362+P364 Remove and wash contaminated clothing before reuse.</p> <p>P363 Wash contaminated clothing before reuse. P405 Keep locked away.</p> <p>P501 Dispose of the product/container in accordance with the regulations. Special arrangements: None Contains benzyl alcohol 3-aminomethyl-3,5,5-trimethylcyclohexylamine m-phenylene bis(methylamine) bisphenol A Special provisions in accordance with Annex XVII of REACH and subsequent amendments: None</p>			
2.3	Other dangers			
	vPvB substances: None – PBT substances: None Other risks: No other risk			
SECTION 3: Composition and information on ingredients				
3.1	Dust			
	Not applicable			
3.2	Mixture of hazardous and non-hazardous substances			
	name	Product identification	%	Classification in accordance with Regulation

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				(EC) No 1272/2008 [CLP]
		benzyl alcohol	Index number: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9	25-50 3.1/4/Oral Acute Tox.4 H302 3.1/4/Inhal Acute Tox.4 H332 .1/4/Oral Acute Tox. 4 H302 3.4.2/1 Skin Sens. 1 H317 4.1/C3 Aquatic Chronic 3 H412
		3-aminomethyl-3,5,5-trimethylcyclohexylamine	Index number: 612-067-00-9 CAS: 2855-13-2 EC: 220-666-8 REACH No.: 01- 2119514687 -32	25-50 3.2/1B Skin Corr. 1B H314 3.1/4/Dermal Acute Tox. 4 H312 3.1/4/Oral Acute Tox. 4 H302 3.4.2/1 Skin Sens. 1 H317 4.1/ C3 Aquatic Chronic 3 H412
		m-phenylene bis(methylamine)	CAS: 1477-55-0 EC: 216-032-5 H332 REACH No.: 01- 2119480150 -50	25-50 3.1/4/Inhal Acute Tox. 4 3.1/4/Oral Acute Tox. 4 H302 3.2/1B Skin Corr. 1B H314 3.4.2/1-1A-1B Skin Sens. 1, 1A,1B H317 4.1/C3 Aquatic Chronic 3 H412
		Fatty acids, tall oil, reaction products with teta	CAS: 68155-17-9 3.3 EC: 268-945-3	10-30 3.3/2 Eye Irrit. 2 H319
		Fatty acids, C18-unsatd., dimers, oligomeric reaction products with teta	CAS: 68082-29-1 EC: 500-191-5	10-30 3.3/2 Eye Irrit. 2 H319 3.2/2 Skin Irrit. 2 H315 3.4.2/1-1A-1B Skin Sens. 1, 1A,1B H317 4.1/C3 Aquatic Chronic 3 H41
		m-phenylene bis(methylamine)	CAS: 1477-55-0 EC: 216-032-5 REACH No.: 2119480150 -50	5-10 3.1/4/Inhal Acute Tox. 4 H332 3.1/4/Oral Acute Tox. 4 H302 3.2/1B Skin Corr. 1B H314 3.4.2/1-1A-1B Skin Sens. 1, 1A,1B H317 4.1/C3 Aquatic Chronic 3 H41
		Bisphenol A	CAS: 80-05-7 3. EC: 201-245-8 3 REACH No.: 01-2119529244-43	2-5 3.7/2 Repr. 2 H361f 3.3/1 Eye Dam. 1 H318 4.1/C2 Aquatic Chronic 2 H411 3.4.2/1 Skin Sens. 1 H317 3.8/3 STOT SE 3 H335
		N,N-dimethyl-1,3-diaminopropane	CAS: 109-55-7 EC: 203-680-9 REACH No.: 01- 2119486842 -27	2-5 3.2/1B Skin Corr. 1B H314 3.1/4/Dermal Acute Tox. 4 H312 3.1/4/Oral Acute Tox. 4 H302 3.4.2/1 Skin Sens. 1 H317 4.1/ C3 Aquatic Chronic 3 H412
		2,4,6-tri(dimethyl aminomethyl)phenol	CAS: 90-72-2 EC: 202-013-9 REACH No.: 01- 2119560597 -27	2-5 3.2/1B Skin Corr. 1B H314 3.4.2/1B Skin Sens. 1B H317 4.1/C3 Aquatic Chronic 3 H412
		triethylenetetramine	CAS: 90640-67-8 EC: 292-588-2 REACH No.: 01- 2119487919 -13	0.2-0.5 .2/1B Skin Corr. 1B H314 3.1/4/Dermal Acute Tox. 4 H312 3.1/4/Oral Acute Tox. 4 H302 3.4.2/1 Skin Sens. 1 H317

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					4.1/C3 Aquatic Chronic 3 H412
		1,11-diamino-3,6,9-triazaudacaan; 060-00-tetraethylene pentamine	Index number: 612- CAS: 90640-66-7 3 EC: 292-587-7 REACH No.: 01- 2119487290 -37	0.2-0.5 3	3.2/1B Skin Corr. 1B H314 3.1/4/Dermal Acute Tox. 4 H312 3.1/4/Oral Acute Tox. 4 H302 3.4.2/1 Skin Sens. 1 H317 4.1/ C3 Aquatic Chronic 3 H412
		Full content of the R, H and EUH phrases: see section 16			
SECTION 4: First aid measures					
	4.1	Description of the first aid measures			
		<p>General First Aid: Never administer anything by mouth to an unconscious person. If you feel unwell, consult a doctor (show them this label if possible).</p> <p>In case of contact with skin: Remove contaminated clothing immediately. CONSULT A DOCTOR IMMEDIATELY.</p> <p>Immediately remove the contaminated clothing items and dispose of them safely.</p> <p>In case of contact with the skin, wash immediately with plenty of water and soap. In case of contact with the eyes: In case of contact with the eyes, rinse thoroughly with water for a sufficient time, keeping the eyelids apart, and then consult an ophthalmologist immediately. Protect the uninjured eye. In case of ingestion: DO NOT induce vomiting. Do not give anything to eat or drink.</p> <p>In case of inhalation: In case of irregular or absent breathing, apply artificial respiration.</p> <p>In case of inhalation, consult a doctor immediately and show the packaging or label.</p>			
	4.2	Main acute and delayed symptoms and effects			
		No			
	4.3	Indication of the required immediate medical care and special treatment			
		In case of accident or feeling unwell, consult a doctor immediately (if possible, show the instructions for use or the safety data). Treatment: none			
SECTION 5: Firefighting measures					
	5.1	Extinguishing equipment			
		Suitable extinguishing agents: Foam. AFFF. Water mist. Unsuitable extinguishing agents: none			
	5.2	Special hazards caused by the substance or mixture			
		Do not inhale the gases produced by the explosion or combustion. The combustion produces heavy smoke.			
	5.3	Advice for firefighters			
		<p>Fire precautions: No open flames, no sparks, and no smoking.</p> <p>Firefighting instructions: Do not enter the fire zone without suitable safety equipment, including respiratory protection.</p> <p>Protection during firefighting: Cool the exposed vessels with a water spray or mist.</p> <p>Additional information: Exercise extreme caution when fighting a chemical fire. Collect the contaminated extinguishing water used for the fire separately. Do not discharge into the sewer. Move the undamaged containers out of the danger zone, if this can be done safely.</p>			

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SECTION 6: Measures in the event of accidental release of the substance or mixture	
6.1	Personal precautions, protective equipment and emergency procedures
	Wear personal protective equipment. Wear respiratory equipment when exposed to vapors/dust/aerosols. Ensure good ventilation. Use suitable respiratory protective equipment. Consult the protective measures as set out in points 7 and 8.
6.11 For	persons other than emergency services
	Protective equipment: Equip cleaning staff with appropriate protection. Emergency procedures: Keep spectators at a distance.
6.12 For	the emergency services
	additional information available
6.2	Environmental precautions
	Prevent penetration into the soil/subsoil. Prevent runoff into surface water or the sewer. Store the contaminated rinse water and dispose of it. In the event of a gas leak or infiltration into watercourses, soil, or sewers, notify the responsible authorities. Suitable material for collection: absorbent material, organic matter, sand.
6.3	Methods and material for containment and cleaning up
6.3	For containment: Use suitable waste containers. Cleaning methods: Clean up spilled product as soon as possible using an absorbent product. Rinse with plenty of water
6.4	Reference to other sections
	Regarding waste disposal after cleaning, see section 13. See section 8 regarding the use of personal protective equipment.
SECTION 7: Handling and storage	
7.1	Precautions for the safe handling of the substance or mixture
	Avoid contact with skin and eyes, inhalation of vapors and mist. Use the local ventilation system. Do not use empty containers before they have been cleaned. Before proceeding with the move, check that there are no residues of incompatible material present in the containers. Remove contaminated clothing and protective equipment before entering areas where eating takes place. Do not eat or drink during work. Reference is also made to paragraph 8 for the recommended protective equipment.
7.2	Conditions for safe storage, including incompatible products. Keep away from food, drink,
	and feed. Incompatible substances: None in particular. See also paragraph 10 below. Instructions for the rooms. Well-ventilated rooms.
7.3	Specific end-use
	B Component coating
SECTION 8: Exposure control measures/personal protection	
8.1	Control parameters
	benzyl alcohol - CAS: 100-51-6 TLV TWA - 10 ppm 45 45 mg/m3

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	<p>m-phenylene bis(methylamine) - CAS: 1477-55-0 ACGIH - STE: C 0.1 mg/m³ - Notes: Skin - Eye, skin, and GI irr bisphenol A - CAS: 80-05-7 UE - LTE(8h): 10 mg/m³ - Notes: inhalable aerosol Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography) DNEL exposure limit values benzyl alcohol - CAS: 100-51-6 Consumer: 25 mg/kg - Exposure: Human Oral - Frequency: Short term, systemic effects Consumer: 5 mg/kg - Exposure: Human Oral - Frequency: Long-term, systemic effects Self-employed professional: 47 mg/kg - Exposure: Human Dermal - Frequency: Short term, systemic effects Independent professional: 9.5 mg/kg - Exposure: Human Dermal - Frequency: Long term, systemic effects 2,4,6-tri(dimethylaminomethyl)phenol - CAS: 90-72-2 Independent professional: 0.2 mg/kg - Frequency: Long term, systemic effects - Remarks: irritation / corrosion (eye and skin) Independent professional: 0.00031 mg/l - Frequency: Long term, systemic effects - Remarks: irritation (respiratory tract) triethylenetetramine - CAS: 90640-67-8 Independent professional: 5.38 mg/l - Exposure: Human Inhalation - Frequency: Short term, local effects Independent professional: 0.57 mg/kg - Exposure: Human Dermal - Frequency: Long term, systemic effects Consumer: 20 mg/kg - Exposure: Human Oral - Frequency: Short-term, systemic effects Consumer: 8 mg/kg - Exposure: Human Dermal - Frequency: Short-term, systemic effects Consumer: 1.6 mg/l - Exposure: Human Inhalation - Frequency: Short term, systemic effects 1,11-diamino-3,6,9-triazaundecane; tetraethylenepentamine - CAS: 90640-66-7 Consumer: 10 mg/kg - Exposure: Human Dermal - Frequency: Short term, systemic effects Professional: 0.74 mg/kg - Consumer: 0.32 mg/kg - Exposure: Human Dermal - Frequency: Long term, systemic effects Consumer: 0.53 mg/kg - Exposure: Human Oral - Frequency: Long term, systemic effects Professional: 0.00129 mg/l - Consumer: 0.00038 mg/l - Exposure: Human Inhalation - Frequency: Long term, systemic effects PNEC exposure limit values benzyl alcohol - CAS: 100-51-6 Target: Soil (agricultural)</p> <p>- Value: 0.456 mg/kg Target: Freshwater sediments - Value: 5.27 mg/kg Target: Seawater sediments - Value: 0.527 mg/kg Target: Seawater - Value: 0.1 mg/l Target: Freshwater - Value: 1 mg/l 3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2 Target: Freshwater - Value: 0.06 mg/l Target: Seawater - Value: 0.006 mg/l Target: Freshwater sediments - Value: 5.784 mg/kg Target: Seawater sediments - Value: 0.578 mg/kg Target: Soil (agricultural) - Value: 1.121 mg/kg 2,4,6-tri(dimethylaminomethyl)phenol - CAS: 90-72-2 Target: Fresh water - Value: 0.084 mg/l Target: Seawater - Value: 0.0084 mg/l triethylenetetramine - CAS: 90640-67-8 Target: Seawater sediments - Value: 0.123 mg/kg Target: Freshwater sediments - Value: 2.08 mg/kg Target: Microorganisms in wastewater treatment plant - Value: 8 mg/l 1,11-diamino-3,6,9-triazaundecane; tetraethylenepentamine - CAS: 90640-66-7 Target: Fresh water - Value: 0.00068 mg/l Target: Seawater - Value: 0.00068 mg/l Target: Fresh water sediments - Value: 3.34 mg/kg Target: Seawater sediments - Value: 0.343 mg/kg Target: Soil (agricultural) - Value: 0.683 mg/kg</p>
8.2	Measures to control exposure
	<p>Individual protective measures, such as personal protective equipment General protection and health measures: Contaminated clothing immediately</p>

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remove. Avoid contact with eyes and skin. Wear suitable protective clothing, gloves and eye/face protection. Keep away from food and drink. Wash hands before the break and at the end of the workday.

to wash. ·

Respiratory protection Not necessary. Ensure adequate ventilation during processing.

Hand protection

Use gloves made of stable material (e.g. nitrile) – if necessary with a knitted backer to improve wearing comfort (EN 374). Remove gloves immediately in case of heavy soiling; in case of light soiling, remove them for maximum service life, at the latest at the end of the shift. To clean the skin, use only water and mild soaps or pH-neutral skin cleansing preparations.

Do not use solvents. · Glove

material Butyl rubber Nitrile rubber Recommended material thickness: \dot{y} 0.5 mm ·

Penetration time of the glove material You can find out the precise penetration time from the glove manufacturer; take this into account. At least 480 minutes. · Eye/face protection

Close-fitting safety glasses eye face

protection (EN 166)

Personal protection: Work clothing (long trousers, long sleeves).

Avoid exposed skin, even in warm weather. Wear a protective apron during mixing. If the mixing drum is clamped between the legs during mixing, wear liquid-tight protective trousers.

Avoid contact with eyes, skin, and clothing. Immediately change soiled or damaged gloves and soiled clothing, and wash skin immediately.

SECTION 9: Physical and chemical properties

	9.1	Information about basic physical and chemical properties
		<p>Physical state: Liquid Color: transparent / yellowish Odour: characteristic. ammonia Odor limit : No data available pH : No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available Flash point : No data available Autoignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Non-flammable Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : 1.09 g/cm³ Solubility : No data available Log Pow : No data available Kinematic viscosity : No data available Dynamic viscosity : No data available Explosive properties : No data available Oxidizing properties : No data available Explosion limits : No data available</p>
	9.2	Other information
		No additional information available
SECTION 10: Stability and reactivity		
	10.1	Reactivity
		No additional information available

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	10.2 Chemical stability	
		Not determined.
	10.3 Possible dangerous reactions	
		In contact with base metals (alkali metals and alkaline earths) and strongly reducing substances, it can produce flammable gases. In contact with oxidizing mineral acids, organic halogens, organic peroxides, and hydroperoxides, and strongly oxidizing substances, it can produce toxic gases. In contact with strongly oxidizing substances, it can ignite.
	10.4 Conditions to be avoided	
		Extremely high or low temperatures. Protect from direct sunlight.
	10.5 Chemically interacting materials	
		strong acids. Strong alkalis
	10.6 Dangerous decomposition products smoke.	
		Carbon monoxide. Carbon dioxide.
SECTION 11: Toxicological information		
	11.1	Information about toxicological effects
		<p>Toxicological information of preparation NA Toxicological information of the main substances in the preparation 11.1</p> <p>Information on toxicological effects Toxicological information of preparation NA</p> <p>Toxicological information of the main substances in the preparation Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tetra - CAS: 68082-29-1 a) acute toxicity: Test: LD50 - Route of exposure: Oral > 16000 mg/kg - Notes: bw benzyl alcohol - CAS: 100-51-6 a) acute toxicity: Test: LD50 - Mode of exposure: Oral - Species: Rat = 1620 mg/kg Test: LC50 - Mode of exposure: Inhalation - Species: Rat > 4178 mg/m3 - Duration: 4h b) skin corrosion/irritation: Test: Irritating to skin Negative c) serious eye damage/eye irritation: Test: Irritating to eyes Positive e) germ cell mutagenicity: Test: mutagenesis Positive - Source: OECD 476 in vitro Test: mutagenesis Negative - Source: OECD 474 g) reproductive toxicity: Test: Reproductive toxicity - Mode of exposure: Oral - Species: Mouse Positive 750 mg/kg - Notes: 192h Test: Reproductive toxicity - Route of exposure: Oral - Species: Mouse Negative 550 mg/kg - Notes: 240h 3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2 a) acute toxicity: Test: LD50 - Mode of exposure: Oral - Species: Rat = 1030 mg/kg b) skin corrosion/irritation: Test: Corrosive to the skin - Mode of exposure: Skin - Species: Rabbit Positive Test: Corrosive to the eyes - Species: Rabbit Positive d) respiratory/skin sensitization: Test: Skin sensitization Positive - Source: Contatto ripetuto e) germ cell mutagenicity: Test: mutagenesis Negative f) carcinogenicity: Test: Carcinogenicity Negative g) reproductive toxicity:</p> <p>Test: Reproductive toxicity Negative m-phenylene bis(methylamine) - CAS: 1477-55-0 a) Acute toxicity: Test: LD50 - Route of exposure: Oral - Species: Rat = 930 mg/kg Test: LD50 - Route of exposure: Skin - Species: Rabbit > 3100 mg/kg Test: LC50 - Mode of exposure: Inhalation - Species: Rat = 1.34 mg/l - Duration: 4h b) skin corrosion/irritation: Test: Corrosive to skin Positive c) serious eye damage/eye irritation: Test: Corrosive to eyes Positive e) germ cell mutagenicity: Test: mutagenesis Negative f) carcinogenicity: Test: Carcinogenicity Negative bisphenol A - CAS: 80-05-7 a) acute toxicity: Test: LD50 - Mode of exposure: Oral - Species: Rat = 4100 mg/kg - Notes: Male rat Test: LD50 - Mode of exposure: Oral - Species: Rat = 3300 mg/kg - Notes: Female rat Test: LC50 - Species: Rabbit = 3000 mg/kg b) skin corrosion/irritation: Test: Irritant to skin Positive c) severe eye damage/eye irritation: Test: Irritant to the eyes Positive d) sensitization of the respiratory tract/skin: Test: Irritant to the respiratory tract -</p> <p>Mode of exposure: Inhalation Positive N,N-dimethyl-1,3-diaminopropane - CAS: 109-55-7 a) acute toxicity: Test: LD50 - Mode of exposure: Oral - Species: Rat = 922 mg/kg Test: LC50</p>

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- Mode of exposure: Inhalation - Species: Rat > 4.31 mg/l - Duration: 4h 2,4,6-tri(dimethylaminomethyl)phenol - CAS: 90-72-2 a) acute toxicity: Test: LD50 - Mode of exposure: Oral - Species: Rat = 1200 mg/kg Test: LD50 - Mode of exposure: Skin - Species: Rabbit = 1280 mg/kg Test: LC50 - Mode of exposure: Inhalation - Species: Rat > 0.5 mg/l - Duration: 1 hr b) skin corrosion/irritation: Test: Irritating to the skin Positive c) serious eye damage/eye irritation: Test: Irritating to the eyes Positive triethylenetetramine - CAS: 90640-67-8 a) acute toxicity: Test: LD50 - Route of exposure: Oral - Species: Rat = 1716 mg/kg - Source: OCDE 401 Test: LD50 - Mode of exposure: Skin - Species: Rabbit = 1465 mg/kg - Source: OCDE 402 b) skin corrosion/irritation: Test: Corrosive to skin - Species: Rabbit Positive - Source: OCDE 404 c) serious eye damage/eye irritation: Test: Corrosive to the eyes - Species: Rabbit Positive - Source: OCDE 405 d) respiratory/skin sensitization: Test: Skin sensitization Positive - Source: OCDE 406 f) carcinogenicity: Test: Carcinogenicity - Species: Mouse Negative - Source: OCDE 451 g) reproductive toxicity: Test: Reproductive toxicity - Species: Rat Negative - Source: OCDE 414 1,11-diamino-3,6,9-triazaundecane; tetraethylenepentamine - CAS: 90640-66-7 a) acute toxicity: Test: LD50 - Route of exposure: Oral - Species: Rat = 3250 mg/kg Test: LD50 - Route of exposure: Skin - Species: Rabbit > 1000 mg/kg b) skin corrosion/irritation: Test: Skin sensitization - Species: Rabbit Positive Unless otherwise specified, the information required in Regulation 453/2010/EC should be considered as not applicable:

a) acute toxicity; b) skin corrosion/irritation; c) serious eye damage/eye irritation; d) respiratory/skin sensitization; e) germ cell mutagenicity; f) carcinogenicity; g) reproductive toxicity; h) STOT upon single exposure; i) STOT upon repeated exposure; j) inhalation hazard.

SECTION 12: Ecological information

	12.1	toxicity
		<p>Adopt good working practices, so that the product is not released into the environment.</p> <p>EPAMINE PC 102 a) Acute danger to the aquatic environment: = - Remarks: WGK: 2 Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tetra - CAS: 68082-29-1 a) Acute danger to the aquatic environment: Endpoint: LC50 - Species: Fish = 1-10 mg/l - Duration h: 96 Endpoint: LC50 = 120 mg/l - Remarks: micro-organisms benzyl alcohol - CAS: 100-51-6 a) Acute danger to the aquatic environment: Endpoint: EC50 - Species: Daphnia = 230 mg/l - Duration h: 48 Species: Algae = 700 mg/l - Duration h: 72 Endpoint: LC50 - Species: Fish = 460 mg/l - Duration h: 96 c) Toxicity to bacteria: Endpoint: EC50 = 390 mg/l - Duration h: 24 3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2 a) Acute danger to the aquatic environment: Endpoint: LC50 - Species: Fish = 110 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia = 23 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae > 50 mg/l - Duration h: 72 b) Chronic aquatic hazard: Endpoint: NOEC - Species: Daphnia = 3 mg/l - Duration h: 504 m-phenylene bis(methylamine) - CAS: 1477-55-0 a) Acute aquatic hazard: Endpoint: EC50 - Species: Daphnia = 15.2 mg/l - Duration h: 48 -</p> <p>Remarks: (OECD 202) Endpoint: EC50 - Species: Algae = 20.3 mg/l - Duration h: 72 - Remarks: (OECD 201) Endpoint: LC50 - Species: Fish = 87.6 mg/l - Duration h: 96 - Comments: (OEC 203) Endpoint: NOEC - Species: Daphnia = 4.7 mg/l - Remarks: (OECD 211) Endpoint: NOEC - Species: Algae = 10.5 mg/l - Duration h: 72 - Remarks: (OECD 201) bisphenol A - CAS: 80-05-7 a) Acute aquatic hazard: Endpoint: LC50 - Species: Fish = 4.7 mg/l - Remarks: Pimephales promelas Endpoint: LC50 - Species: Daphnia = 10.2 mg/l - Remarks: Daphnia magna Species: Algae = 2.7-3.1 mg/l - Remarks: IC50 N,N-dimethyl-1,3-diaminopropane - CAS: 109-55-7 a) Acute aquatic hazard</p>

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	<p>environment: Endpoint: LC50 - Species: Fish = 122 mg/l Endpoint: EC50 - Species: Daphnia = 59.5 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae = 53.5 mg/l - Duration h: 72 c) Toxicity to bacteria: = 69.5 mg/l - Duration h: 17 - Remarks: Pseudomonas putida EC10 triethylenetetramine - CAS: 90640-67-8 a) Acute aquatic hazard: Endpoint: LC50 - Species: Fish = 330 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia = 31.1 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae = 20 mg/l - Duration h: 72 b) Chronic hazard aquatic environment: Endpoint: EC50 - Species: Daphnia = 10 mg/l - Remarks: 21 d Endpoint: NOEC - Species: Algae = 2.5 mg/l - Duration h: 72 1,11-diamino-3,6,9-triazaundecane; tetraethylenepentamine - CAS: 90640-66-7 a) Acute aquatic hazard: Endpoint: LC50 - Species: Fish > 100 mg/l - Duration hr: 96 - Remarks: Poecilia reticulata Endpoint: EC50 - Species: Daphnia > 14 mg/l - Duration hr: 48 Endpoint: EC50 - Species: Algae > 2.1 mg/l - Duration hr: 72 - Remarks: Green algae</p>
12.2	Persistence and degradability
	<p>None Fatty acids, C18-unsatd., dimers, oligomeric reaction products with teta - CAS: 68082-29-1 Biodegradability: Not rapidly biodegradable - Test: NA - Duration: NA - %: NA - Remarks: NA benzyl alcohol - CAS: 100-51-6 Biodegradability: Rapidly degradable - Test: NA - Duration: NA - %: NA - Remarks: NA 3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2 Biodegradability: Not rapidly degradable - Test: NA - Duration: NA - %: NA - Comments: NA triethylenetetramine - CAS: 90640-67-8 Biodegradability: Not rapidly biodegradable - Test: NA - Duration: NA - %: NA - Notes: NA 1,11-diamino-3,6,9-triazaundecane; tetraethylenepentamine - CAS: 90640-66-7 Biodegradability: Not rapidly biodegradable - Test: NA - Duration: NA - %: NA - Comments: NA</p>
12.3	Bioaccumulation:
	<p>benzyl alcohol - CAS: 100-51-6 Bioaccumulation: Bioaccumulative - Test: BCF - Bioconcentration factor 1.37 - Duration: NA - Comments: NA 3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2 Bioaccumulation: Not bioaccumulative - Test: NANA - Duration: NA - Remarks: NA 1,11-diamino-3,6,9-triazaundecane; tetraethylenepentamine - CAS: 90640-66-7 Bioaccumulation: Non-bioaccumulative - Test: NANA - Duration: NA - Comments: NA</p>
12.4	Mobility in the soil
	<p>3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2 Mobility in soil: Non-mobile - Test: NANA - Duration: NA - Remarks: NA 1,11-diamino-3,6,9-triazaundecane; tetraethylenepentamine - CAS: 90640-66-7 Mobility in soil: Non-mobile - Test: NA - Duration: NA - Comments: NA</p>
12.5	Results of PBT and zPzB assessment
	No additional information available
12.6	Other harmful effects
	Avoid discharge into the vicinity.
12.7	Other harmful effects
	<p>Note: Harmful to fish. - Further ecological information: - General information: Harmful to aquatic organisms Do not discharge into groundwater, surface water or sewers. Water hazard (NL): A(3) harmful to aquatic organisms may cause long-term harmful effects in the aquatic environment</p>
SECTION 13 Disposal instructions	
13.1	Waste processing methods
	Recommendations for waste disposal: Dispose of safely in accordance with local/national regulations.

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		Prevent discharge into the environment
SECTION 14: Information regarding transport		
		Land transport (ADR / RID / GGVSEB)
	14.1 UN	number
		ADR-UN Number: 2735 IATA-UN Number: 2735 IMDG-UN Number: 2735
	14.2	Proper shipping name in accordance with the UN Model Regulations:
		ADR-Shipping Name: CORROSIVE LIQUID, NAO (m-phenylene bis(methylamine), 3-aminomethyl-3,5,5-trimethylcyclohexylamine) IATA Shipping Name: Corrosive Liquid, NAO (m-phenylene bis(methylamine), 3-aminomethyl-3,5,5-trimethylcyclohexylamine) IMDG-Shipping Name: CORROSIVE LIQUID, NAO (m-phenylene bis(methylamine), 3-aminomethyl-3,5,5-trimethylcyclohexylamine)
	14.3	Transport hazard class(es):
		ADR Class: 8 ADR - Hazard identification number: 80 IATA Class: 8 IATA Label: 8 IMDG-Class: 8 IMDG Class: 8
	14.4	Packaging group:
		ADR Packing Group: II IATA Packing group: II IMDG-Packing group: II
	14.5	Environmental hazards:
		ADR Environmental Pollutant: No IMDG-Marine pollutant: No
	14.6	Special precautions for the user:
		ADR-Subsidiary risks: - ADR-SP: 274 ADR-Tunnel restriction code: (E) IATA-Passenger Aircraft: 851 IATA-Subsidiary risks: - IATA-Cargo Aircraft: 855 IATA-SP: A3 A803 IATA-ERG: 8L IMDG-EmS: FA IMDG-Storage notes: "Separated from" acids. , SB IMDG-Subsidiary risks: - IMDG-Storage category: Category A
	14.7	Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code
		Not applicable
SECTION 15: Regulations		
	15.1	Specific safety, health and environmental regulations and legislation for the substance or mixture
		Directive 98/24/EC (Risks associated with chemicals at work) Directive 2000/39/EC (Occupational exposure limits) Regulation (EC) No 1907/2006 (REACH) Regulation (EC) No 1272/2008 (CLP) Regulation (EC) No 790/2009 (ATP 1 CLP) and (EU) No. 758/2013 Regulation (EU) 2015/830 Regulation (EU) No 286/2011 (ATP 2 CLP) Regulation (EU) No 618/2012 (ATP 3 CLP) Regulation (EU) No 487/2013 (ATP 4 CLP) Regulation (EU) No 944/2013 (ATP 5 CLP) Regulation (EU) No 605/2014 (ATP 6 CLP) Restrictions regarding the product or the substances contained therein in accordance with Annex XVII of

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	<p>Regulation (EU) 1907/2006 (REACH) and subsequent amendments: Restrictions regarding the product: Restriction 3 Restrictions regarding the substances it contains: No restrictions. Where applicable, refer to the following provisions: Directive 2012/18/EY (Seveso III) Regulation (EC) No 648/2004 (detergents). Richtl. 2004/42/EC (VOC Directive) Provisions relating to EU Directive 2012/18 (Seveso III): Seveso III category in accordance with Annex 1, Part 1 NA.</p>
15.2	Chemical safety assessment
	No chemical safety assessment has been performed
SECTION 16: Other information	
	<p>Indication of changes: Revision: *.</p> <p>Data sources: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on the classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006.</p>
	<p>Full text of abbreviated H-phrases</p> <p>Relevant H-phrases from Chapter 3</p> <p>H319 Causes serious eye irritation. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H412 Harmful to aquatic organisms, with long-lasting effects. H302 Harmful if swallowed.</p> <p>H332 Harmful if inhaled. H312 Harmful in contact with skin. H314 Causes severe burns and eye damage. H361f Is suspected of impairing fertility. H318 Causes serious eye damage. H411 Toxic to aquatic organisms, with long-lasting effects. H335 May cause respiratory irritation. H226 Flammable liquid and vapor</p>
	<p>Other information: #</p> <p>REACH Declaration: All information is based on current knowledge. Consistency of the data in this Safety Data Sheet with the data stated in the Chemical Safety Report has been considered to the extent that these were available at the time of compilation (see Version number and Revision date).</p> <p>DISCLAIMER OF LIABILITY The information in this sheet was obtained from sources that are, to the best of our knowledge, reliable. However, the information was provided without any guarantee—directly implied—regarding its accuracy. The conditions or methods of handling, storage, use, or finishing of the product are beyond our control and influence and may also be beyond our knowledge. For these and other reasons, we accept no liability whatsoever, while liability for losses, damage, or expenses that may arise in any way from the handling, storage, use, or finishing and disposal of the product is expressly disclaimed.</p> <p>Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organization</p>

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ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods IATA:
International Air Transport Association GHS:
Globally Harmonized System of Classification and Labeling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS:
European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative Acute Tox.
4: Acute Toxicity – Category 4 Skin Corr.
1B: Skin corrosion/irritation – Category
1B Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye
Dam. 1: Serious eye damage/eye irritation –
Category 1 Skin Sens. 1:
Skin sensitization – Category 1 Repr. 2: Reproductive
toxicity – Category 2 STOT SE 3: Specific target organ
toxicity after single exposure – Category 3 Aquatic Chronic 2: Aquatic hazard -
long-term aquatic
hazard – Category 2 Aquatic Chronic 3: Aquatic hazard - long-term aquatic hazard –
Category 3