

Safety Data Sheet

according to Regulation (EC) No 1907/2006

VELOSIT PR 301 (B)

Revision date: 03.11.2022

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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UFI: P89A-GSTP-AFCK-07MR

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

Primer and mortar resin

Uses advised against

The product is intended for professional use.

1.3. Details of the supplier of the safety data sheet

Company name:	VELOSIT GmbH & Co. KG	
Street:	Industriepark 5 - 7	
Place:	D-32805 Horn-Bad Meinberg	
Telephone:	+49 (0) 5233-9517-300	Telefax: +49 (0) 5233-9517-301
e-mail:	info@velosit.de	
Contact person:	Technical Department	
Internet:	http://www.velosit.de	
Responsible Department:	Technical Department	
	info@velosit.de	

1.4. Emergency telephone number:

GBK Gefahrgut Buero GmbH, Tel. +49 (0) 6132 - 84463

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Acute Tox. 4; H302
 Acute Tox. 4; H332
 Skin Corr. 1B; H314
 Eye Dam. 1; H318
 Skin Sens. 1; H317
 STOT RE 2; H373
 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

benzyl alcohol
 4,4'-Methylenebis(aminocyclohexane)
 3-aminomethyl-3,5,5-trimethylcyclohexylamine
 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)
 Formaldehyde, polymer with benzenamine, hydrogenated
 N,N'-bis(3-aminopropyl)ethylenediamine
 Phenol, styrenated
 N-(2-aminoethyl)-1,3-propanediamine

Signal word: Danger

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Pictograms:



Hazard statements

H302+H332	Harmful if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.

Special labelling of certain mixtures

EUH071	Corrosive to the respiratory tract. Restricted to professional users.
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2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

formulated polyamine hardener

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
100-51-6	benzyl alcohol			45 - < 50 %
	202-859-9	603-057-00-5	01-2119492630-38	
	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H332 H302 H319			
1761-71-3	4,4'-Methylenebis(aminocyclohexane)			10 - < 15 %
	217-168-8		01-2119541673-38	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1B, STOT RE 2; H302 H314 H318 H317 H373			
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			10 - < 15 %
	220-666-8	612-067-00-9	01-2119514687-32	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A; H302 H314 H318 H317			
113930-69-1	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)			10 - < 15 %
	500-302-7		01-2119965162-39	
	Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H314 H318 H317 H411			
135108-88-2	Formaldehyde, polymer with benzenamine, hydrogenated			5 - < 10 %
			01-2119983522-33	
	Acute Tox. 3, Skin Corr. 1C, Skin Sens. 1, STOT RE 2, Aquatic Chronic 3; H301 H314 H317 H373 H412			
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol			1 - < 5 %
	202-013-9	603-069-00-0	01-2119560597-27	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H315 H319			
10563-26-5	N,N'-bis(3-aminopropyl)ethylenediamine			1 - < 5 %
	234-147-9		01-2119976331-37	
	Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1A; H311 H302 H314 H317			
61788-44-1	Phenol, styrenated			1 - < 5 %
	262-975-0		01-2119980970-27	
	Skin Irrit. 2, Skin Sens. 1A, Aquatic Chronic 2; H315 H317 H411			
13531-52-7	N-(2-aminoethyl)-1,3-propanediamine			< 1 %
	236-882-0		01-2120097861-45	
	Acute Tox. 2, Acute Tox. 4, Skin Corr. 1A, Skin Sens. 1A; H310 H302 H314 H317			
101-77-9	4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline			< 0.1 %
	202-974-4	612-051-00-1	01-2119491289-24	
	Carc. 1B, Muta. 2, Acute Tox. 3, Skin Sens. 1, STOT SE 1, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H350 H341 H301 H317 H370 H373 H400 H410			

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
100-51-6	202-859-9	benzyl alcohol	45 - < 50 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = 1570 mg/kg	
1761-71-3	217-168-8	4,4'-Methylenebis(aminocyclohexane)	10 - < 15 %
		dermal: LD50 = 2110 mg/kg; oral: LD50 = 380 mg/kg	
2855-13-2	220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine	10 - < 15 %
		inhalation: LC50 = >5,01 mg/l (dusts or mists); oral: ATE 1030 mg/kg Skin Sens. 1A; H317: >= 0,001 - 100	
135108-88-2		Formaldehyde, polymer with benzenamine, hydrogenated	5 - < 10 %
		oral: LD50 = 300 mg/kg	
90-72-2	202-013-9	2,4,6-tris(dimethylaminomethyl)phenol	1 - < 5 %
		oral: ATE = 500 mg/kg	
10563-26-5	234-147-9	N,N'-bis(3-aminopropyl)ethylenediamine	1 - < 5 %
		dermal: ATE = 300 mg/kg; oral: LD50 = 1140 mg/kg	
61788-44-1	262-975-0	Phenol, styrenated	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
13531-52-7	236-882-0	N-(2-aminoethyl)-1,3-propanediamine	< 1 %
		dermal: LD50 = 184 mg/kg; oral: LD50 = 654 mg/kg	
101-77-9	202-974-4	4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline	< 0.1 %
		oral: ATE = 100 mg/kg Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=10	

Further Information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: 4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline (CAS: 101-77-9)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately.

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

No information available.

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

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Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Carbon dioxide (CO₂). Foam. Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear personal protection equipment (refer to section 8). Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Usual measures for fire prevention.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

Hints on joint storage

For more information about together and separate storage: refer to TRGS 510

Further information on storage conditions

Recommended storage temperature: 10 - 30 °C

Keep/Store only in original container.

Store in a dry place.

7.3. Specific end use(s)

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Further remarks:

Information System of the Professional Association of construction industry see on www.gisbau.de**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
101-77-9	4,4'-Methylenedianiline	0.01	0.08		TWA (8 h)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
101-77-9	4,4'-Methylenedianiline (MDA)	total MDA (creatinine)	50 µmol/mol	urine	Post shift for inhalation and pre-shift next day for dermal exposure

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
100-51-6	benzyl alcohol			
Worker DNEL, long-term		inhalation	systemic	22 mg/m ³
Worker DNEL, acute		inhalation	systemic	110 mg/m ³
Worker DNEL, long-term		dermal	systemic	8 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	40 mg/kg bw/day
1761-71-3	4,4'-Methylenebis(aminocyclohexane)			
Worker DNEL, long-term		inhalation	systemic	0,13 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,053 mg/kg bw/day
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Worker DNEL, long-term		inhalation	local	0,073 mg/m ³
Worker DNEL, acute		inhalation	local	0,073 mg/m ³
113930-69-1	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)			
Worker DNEL, long-term		inhalation	systemic	0,493 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,14 mg/kg bw/day
135108-88-2	Formaldehyde, polymer with benzenamine, hydrogenated			
Worker DNEL, long-term		inhalation	systemic	0,2 mg/m ³
Worker DNEL, acute		inhalation	systemic	2 mg/m ³
Worker DNEL, long-term		dermal	systemic	2 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	6 mg/kg bw/day
61788-44-1	Phenol, styrenated			
Worker DNEL, long-term		inhalation	systemic	7,4 mg/m ³
Worker DNEL, long-term		dermal	systemic	2,1 mg/kg bw/day
13531-52-7	N-(2-aminoethyl)-1,3-propanediamine			
Worker DNEL, long-term		inhalation	systemic	0,62 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,18 mg/kg bw/day

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PNEC values

CAS No	Substance	Value
Environmental compartment		
100-51-6	benzyl alcohol	
Freshwater		1 mg/l
Marine water		0,1 mg/l
Freshwater sediment		5,27 mg/kg
Marine sediment		0,527 mg/kg
Soil		0,456 mg/kg
1761-71-3	4,4'-Methylenebis(aminocyclohexane)	
Freshwater		0,08 mg/l
Marine water		0,008 mg/l
Freshwater sediment		137 mg/kg
Marine sediment		13,7 mg/kg
Soil		27,2 mg/kg
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	
Freshwater		0,06 mg/l
Marine water		0,006 mg/l
Freshwater sediment		5,784 mg/l
Marine sediment		0,578 mg/l
Soil		1,121 mg/l
113930-69-1	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	
Freshwater		0,001 mg/l
Marine water		0 mg/l
135108-88-2	Formaldehyde, polymer with benzenamine, hydrogenated	
Freshwater		0,015 mg/l
Marine water		0,002 mg/l
Freshwater sediment		15 mg/kg
Marine sediment		1,5 mg/kg
Soil		1,8 mg/kg
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	
Freshwater		0,046 mg/l
Marine water		0,005 mg/l
Freshwater sediment		0,262 mg/kg
Marine sediment		0,026 mg/kg
Soil		0,025 mg/kg
61788-44-1	Phenol, styrenated	
Freshwater		0,015 mg/l
Marine water		0,014 mg/l
Freshwater sediment		0,132 mg/kg
Marine sediment		0,125 mg/kg
Soil		0,018 mg/kg

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13531-52-7	N-(2-aminoethyl)-1,3-propanediamine	
Freshwater		0,144 mg/l
Marine water		0,014 mg/l
Freshwater sediment		0,648 mg/kg
Marine sediment		0,065 mg/kg
Soil		0,045 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Suitable eye protection: goggles. (EN 166)

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommendation to EN 374: For short time use or protection against splashes: Butyl rubber / nitrile rubber (0.4 mm), contaminated gloves should be changed and disposed. Suitable for permanent exposure: Viton gloves (0.4 mm) Break through time > 30 min.

Skin protection

Wear suitable protective clothing. Recommendation: Safety shoes according to EN ISO 20345, long pants and long-sleeved work shirt; with mixing and stirring work additional rubber apron and protective boots according to EN 14605

Respiratory protection

To follow: EN 689 - Methods for determining inhalation exposure In case of inadequate ventilation wear respiratory protection. Organic vapor filter (Type A) The selection of respirators (EN 14387) must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits (sections 8.1) of the selected respirator.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	light yellow
Odour:	slightly.

Test method

pH-Value: No information available.

Changes in the physical state

Flash point: 94 °C calculated.

Explosive properties

No information available.

Auto-ignition temperature: No information available.

Decomposition temperature: No information available.

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Oxidizing properties

No information available.

Vapour pressure:

No information available.

Density (at 23 °C):

ca. 1,02 g/cm³ ISO 2811-2

Water solubility:

No information available.

Solubility in other solvents

No information available.

Partition coefficient n-octanol/water:

No information available.

Viscosity / dynamic:
(at 25 °C)

< 100 mPa·s ISO 2884-1

Relative vapour density:

No information available.

Evaporation rate:

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

Acid, Oxidising agent

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Harmful if swallowed.

Harmful if inhaled.

ATEmix calculated

ATE (oral) 934,3 mg/kg; ATE (inhalation dust/mist) 3,043 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
100-51-6	benzyl alcohol				
	oral	LD50 1570 mg/kg	Rat	ECHA Dossier	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
1761-71-3	4,4'-Methylenebis(aminocyclohexane)				
	oral	LD50 380 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 2110 mg/kg	Rabbit	ECHA Dossier	
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine				
	oral	ATE 1030 mg/kg			
	inhalation (4 h) dust/mist	LC50 >5,01 mg/l	Rat (OECD 403)	ECHA Dossier	
135108-88-2	Formaldehyde, polymer with benzenamine, hydrogenated				
	oral	LD50 300 mg/kg	Rat	ECHA Dossier	
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol				
	oral	ATE 500 mg/kg			
10563-26-5	N,N'-bis(3-aminopropyl)ethylenediamine				
	oral	LD50 1140 mg/kg	Rat	ECHA Dossier	
	dermal	ATE 300 mg/kg			
61788-44-1	Phenol, styrenated				
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rat	ECHA Dossier	
13531-52-7	N-(2-aminoethyl)-1,3-propanediamine				
	oral	LD50 654 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 184 mg/kg	Rabbit		
101-77-9	4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline				
	oral	ATE 100 mg/kg			

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (4,4'-Methylenebis(aminocyclohexane); 3-aminomethyl-3,5,5-trimethylcyclohexylamine; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine); Formaldehyde, polymer with benzenamine, hydrogenated; N,N'-bis(3-aminopropyl)ethylenediamine; Phenol, styrenated; N-(2-aminoethyl)-1,3-propanediamine; 4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline)

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Carcinogenic/mutagenic/toxic effects for reproduction

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

May cause damage to organs through prolonged or repeated exposure.
(4,4'-Methylenebis(aminocyclohexane))

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1761-71-3	4,4'-Methylenebis(aminocyclohexane)					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Leuciscus idus	ECHA Dossier	
135108-88-2	Formaldehyde, polymer with benzenamine, hydrogenated					
	Acute fish toxicity	LC50 63 mg/l	96 h	Poecilia reticulata (OECD 203)	ECHA Dossier	
	Acute algae toxicity	ErC50 43,94 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 18,6 mg/l	48 h	Daphnia magna (OECD 202)	ECHA Dossier	
61788-44-1	Phenol, styrenated					
	Acute fish toxicity	LC50 5,6 mg/l	96 h	Oryzias latipes (OECD 203)	ECHA Dossier	
	Acute crustacea toxicity	EC50 4,6 mg/l	48 h	Daphnia magna (OECD 202)	ECHA Dossier	

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
100-51-6	benzyl alcohol			
	OECD 301D/ EEC 92/69/V, C.4-E	95%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			
	Biodegradation	8%	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)			
113930-69-1	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)			
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	0%	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)			

12.3. Bioaccumulative potential

The product has not been tested.

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
100-51-6	benzyl alcohol	1,1
1761-71-3	4,4'-Methylenebis(aminocyclohexane)	2,03
113930-69-1	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	3,6
135108-88-2	Formaldehyde, polymer with benzenamine, hydrogenated	2,68
101-77-9	4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline	1,59

BCF

CAS No	Chemical name	BCF	Species	Source
61788-44-1	Phenol, styrenated	69-190		

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:

UN 2735

14.2. UN proper shipping name:

POLYAMINES, LIQUID, CORROSIVE, N.O.S.
(4,4'-Methylenebis(aminocyclohexane); Isophorone diamine)

14.3. Transport hazard class(es):

8

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14.4. Packing group:	II
Hazard label:	8
Classification code:	C7
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E

Marine transport (IMDG)

14.1. UN number:	UN 2735
14.2. UN proper shipping name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Methylenbis(cyclohexylamine); Isophorone diamine)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Marine pollutant:	No
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-A, S-B

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 75

2004/42/EC (VOC):

VOC content (g/L), delivery state: < 500

Subcategory according to Directive
2004/42/EC:

Two-pack reactive performance coatings for specific end use such as
floors - Solvent-borne coatings, VOC limit value: 500 g/l

Information according to 2012/18/EU
(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

Additional information

Prohibition/Restriction:

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): 3, 28, 75

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: 4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline (CAS:

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101-77-9)

REACH - List of substances subject to authorisation (Annex XIV): not applicable

REACH Information: All substances contained in our Products are preregistered or registered by our upstream suppliers, and/or preregistered or registered by us, and/or excluded from the regulation, and/or exempted from the registration.

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water hazard class (D):	3 - highly hazardous to water
Skin resorption/Sensitization:	Permeates easily through outer skin and causes poisoning. Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

benzyl alcohol
 4,4'-Methylenebis(aminocyclohexane)
 3-aminomethyl-3,5,5-trimethylcyclohexylamine
 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)
 Phenol, styrenated

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,12,15.

Abbreviations and acronyms

ADR: Accord européen sur le transport 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 Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Acute Tox. 4; H332	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.

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H302+H332	Harmful if swallowed or if inhaled.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H370	Causes damage to organs.
H373	May cause damage to kidneys through prolonged or repeated exposure if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)