



ARDEX GF 300 Komponente A

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 8/7/2017 Revision date: 6/4/2025 Supersedes version of: 3/9/2022 Version: 4.0

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

1.1. Product identifier

Product form : Mixture
Product name : ARDEX GF 300 Komponente A
UFI : 0VC0-7085-E00C-4EF7
Product code : 7601, 7602

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

Relevant identified uses

Main use category : For professional use only
Industrial/Professional use spec : Construction materials
Use of the substance/mixture : Grouting Compounds
Function or use category : Construction materials

1.3. Details of the supplier of the safety data sheet

Supplier

ARDEX Baustoff GmbH
Hürmer Str. 40
AT A-3382 Loosdorf
Austria
T +43/2754/7021-0, F +43/2754/2490
E-mail address of competent person responsible for the SDS : produktion@ardex.at

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Austria	Notrufnummer		+43-(0)1-4064343 (Vergiftungsinformationsz entrale Österreich)	
Austria	Emergency number		+43-(0)1-4064343 (Poisoning Information Center Austria)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment – Chronic Hazard, H412
Category 3
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes serious eye irritation. May cause an allergic skin reaction.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

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Contains	: methyl-4-toluenesulfonate; 2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane; Reaktionsmasse aus 2,2'-[Methylenbis(2,1-phenylenoxymethylen)]bis(oxiran) und 2,2'- [Methylenbis(4,1-phenylenoxymethylen)]bis(oxiran) und 2-({2-[4- (Oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxiran; Fatty acids, C16-C18 and C18-unsaturated, ME esters, epoxidized
Hazard statements (CLP)	: H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P261 - Avoid breathing dust, fume, gas, mist, vapours, spray. P280 - Wear protective gloves, protective clothing, eye protection, face protection, hearing protection. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P102 - Keep out of reach of children.
Extra phrases	: Dispose of the container and contents in the set state in accordance with applicable local/regional/national/international regulations.

2.3. Other hazards

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	quartz, conc respirable crystalline silica <1 % (14808-60-7), methyl-4-toluenesulfonate (80-48-8)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	quartz, conc respirable crystalline silica <1 % (14808-60-7), methyl-4-toluenesulfonate (80-48-8)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	quartz, conc respirable crystalline silica <1 % (14808-60-7), 2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane (1675-54-3)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
quartz, conc respirable crystalline silica <1 % substance with a Community workplace exposure limit	CAS-No.: 14808-60-7 EC-No.: 238-878-4	75 - < 80	Not classified
2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane	CAS-No.: 1675-54-3 EC-No.: 216-823-5 EC Index-No.: 603-073-00-2 REACH-no: 01-2119456619-26	1 - < 5	Flam. Liq. Not classified Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
methyl-4-toluenesulfonate	CAS-No.: 80-48-8 EC-No.: 201-283-5 REACH-no: 01-2120752485-49	< 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317
Reaktionsmasse aus 2,2'-[Methylenbis(2,1-phenylenoxymethylen)]bis(oxiran) und 2,2'-[Methylenbis(4,1-phenylenoxymethylen)]bis(oxiran) und 2-({2-[4-(Oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxiran	EC-No.: 701-263-0 REACH-no: 01-2119454392-40	< 1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Fatty acids, C16-C18 and C18-unsaturated, ME esters, epoxidized	CAS-No.: 158318-67-3 EC-No.: 605-143-8	< 1	Skin Sens. 1B, H317
Quaternäre Ammoniumverbindungen, Benzyl-C12-18-alkyldimethyl, Chloride	CAS-No.: 68391-01-5 EC-No.: 269-919-4	< 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane	CAS-No.: 1675-54-3 EC-No.: 216-823-5 EC Index-No.: 603-073-00-2 REACH-no: 01-2119456619-26	(5 ≤ C < 100) Eye Irrit. 2; H319 (5 ≤ C < 100) Skin Irrit. 2; H315

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Move to fresh air. If symptoms persist call a doctor.
First-aid measures after skin contact	: After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Drink plenty of water. If you feel unwell, seek medical advice.

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

Symptoms/effects	: No additional information available.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Water spray.
Unsuitable extinguishing media	: high volume water jet.

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5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate area.
Firefighting instructions : Contain the extinguishing fluids by bunding. Do not allow run-off from fire-fighting to enter drains or water courses.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus and chemically protective clothing. Full suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate air ventilation. Avoid dust formation. Wear personal protective clothing (see chapter 8).

For non-emergency personnel

Protective equipment : See Section 7. See Section 8.
Emergency procedures : Avoid contact with skin and eyes.
Measures in case of dust release : Do not breathe dust.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Protective gloves. Safety glasses. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Do not allow to enter drains or water courses.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
Other information : Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

See Section 7. See Section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : See Section 8.
Precautions for safe handling : Wear personal protective equipment. Avoid breathing spray, vapours, gas, mist, fume, dust, dust.
Hygiene measures : Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate air ventilation.
Storage conditions : Keep container tightly closed.
Information on mixed storage : No special measures required.
Storage area : Protect from moisture.

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7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

quartz, conc respirable crystalline silica<1 % (14808-60-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Silica crystalline (Quartz)
IOEL TWA	0.1 mg/m ³ (Respirable fraction)
Remark	(Year of adoption 2003)
Regulatory reference	SCOEL Recommendations
Austria - Occupational Exposure Limits	
Local name	Quarzfeinstaub (alveolengängiges kristallines Siliziumdioxid)
MAK (OEL TWA)	0.05 mg/m ³ (A)
Remark	Krebserzeugend: III C
Regulatory reference	BGBl. II Nr. 156/2021
Austria - Biological limit values	
Local name	Quarz Staub
Remark	Eignung mit vorzeitiger Folgeuntersuchung: Bei Vorliegen einer wesentlichen Beeinträchtigung der Lungenfunktion. Diese liegt jedenfalls vor, wenn nach mehrmaliger Messung der beste gemessene Wert den für den/die Untersuchte/n maßgebenden Sollwert um 20% unterschreitet bzw. den MEF50-Sollwert um 50% unterschreitet. Eine vorzeitige Folgeuntersuchung ist jedoch nicht erforderlich, wenn im Vergleich zu Vorbefunden der altersabhängige physiologische Abfall der 1-Sekundenkapazität (FEV1) von 40 ml/Jahr nicht überschritten wird oder aus der Beurteilung des Kurvenverlaufes der Forcierten Vitalkapazität (FVC) eine eingeschränkte Mitarbeit des Untersuchten/der Untersuchten ersichtlich ist. Der Zeitabstand zwischen den Untersuchungen beträgt bei Eignung: zwei Jahre bzw. für die Röntgenuntersuchung 4 Jahre; bei Eignung mit vorzeitiger Folgeuntersuchung: ein Jahr. Sofern eine vorzeitige Folgeuntersuchung lediglich auf Grund veränderter Lungenfunktionswerte erfolgt, ist die Lungenfunktionsprüfung durchzuführen, jedoch keine Röntgen-Aufnahme anzufertigen.
Regulatory reference	Verordnung über die Gesundheitsüberwachung am Arbeitsplatz 2017 (VGÜ 2017)
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	0.1 mg/m ³

DNEL and PNEC

2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane (1675-54-3)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.75 mg/kg bw/day
Long-term - systemic effects, inhalation	4.93 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.5 mg/kg bw/day
Long-term - systemic effects, inhalation	0.87 mg/m ³

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2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane (1675-54-3)	
Long-term - systemic effects, dermal	89.3 µg/kg dw
PNEC (Water)	
PNEC aqua (freshwater)	0.006 mg/l
PNEC aqua (marine water)	0.001 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.341 mg/kg dwt
PNEC sediment (marine water)	0.034 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.065 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	11 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. In case of inadequate ventilation wear respiratory protection.

Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Wear closed safety glasses

Skin protection

Skin and body protection:

Wear proper protective equipment. Avoid contact with skin, eyes and clothing

Hand protection:

Wear suitable gloves resistant to chemical penetration

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Butyl rubber, Ethyl Vinyl Alcohol Laminate (EVAL), Neoprene rubber (HNBR), Nitrile rubber (NBR), Vinyl, PVC gloves	6 (> 480 minutes), Please follow the instructions related to the permeability and the penetration time provided by the manufacturer		6 (> 480 minutes), Refer to supplier/manufacturer	EN ISO 374

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Other skin protection

Materials for protective clothing:

Wear suitable protective clothing

Respiratory protection

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Other information:

Observe general hygiene measures when handling chemicals.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Grey.
Appearance	: sand.
Odour	: resinous.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: > 100 °C
Flammability	: Not available
Explosive properties	: Not applicable.
Oxidising properties	: Non oxidizing.
Lower explosion limit	: Not determined
Upper explosion limit	: Not determined
Flash point	: > 100 °C
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not determined
pH	: 6 (200g/l)
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not specifically applicable
Solubility	: insoluble in water. Water: 0 g/l
Partition coefficient n-octanol/water (Log Kow)	: Not determined
Partition coefficient n-octanol/water (Log Pow)	: Not determined
Vapour pressure	: Not determined
Vapour pressure at 50°C	: Not available
Density	: 1.13 g/cm ³
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at normal ambient temperatures and when used as recommended.

10.2. Chemical stability

Spontaneous polymerisation.

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10.3. Possibility of hazardous reactions

In the presence of free radical generators (e.g. peroxides), reducing substances and/or heavy metal ions, polymerization with heat generation is possible.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Peroxides. Reducing agents.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

methyl-4-toluenesulfonate (80-48-8)

LD50 oral rat	300 – 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Single treatment without rinsing, Oral)
LD50 oral	341 mg/kg
ATE CLP (oral)	300 mg/kg bodyweight

2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane (1675-54-3)

LD50 oral rat	> 2000 mg/kg bodyweight (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 oral	15000 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal	2300 mg/kg
ATE CLP (oral)	15000 mg/kg bodyweight
ATE CLP (dermal)	2300 mg/kg bodyweight

Quaternäre Ammoniumverbindungen, Benzyl-C12-18-alkyldimethyl, Chloride (68391-01-5)

LD50 oral rat	344 mg/kg
LD50 dermal rabbit	3340 mg/kg
ATE CLP (oral)	500 mg/kg bodyweight

Skin corrosion/irritation : Slightly irritant but not relevant for classification
pH: 6 (200g/l)

quartz, conc respirable crystalline silica<1 % (14808-60-7)

pH	5 – 8 (40 %, 20 °C)
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methyl-4-toluenesulfonate (80-48-8)

pH	No data available in the literature
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2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane (1675-54-3)

pH	No data available in the literature
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Serious eye damage/irritation : Not classified
pH: 6 (200g/l)

quartz, conc respirable crystalline silica<1 % (14808-60-7)	
pH	5 – 8 (40 %, 20 °C)

methyl-4-toluenesulfonate (80-48-8)	
pH	No data available in the literature

2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane (1675-54-3)	
pH	No data available in the literature

Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

quartz, conc respirable crystalline silica<1 % (14808-60-7)	
Viscosity, kinematic	Not applicable (solid)

methyl-4-toluenesulfonate (80-48-8)	
Viscosity, kinematic	Not applicable (solid)

2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane (1675-54-3)	
Viscosity, kinematic	No data available in the literature

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

methyl-4-toluenesulfonate (80-48-8)	
EC50 - Crustacea [1]	1.38 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	5.62 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Fresh water, Experimental value, GLP)

Quaternäre Ammoniumverbindungen, Benzyl-C12-18-alkyldimethyl, Chloride (68391-01-5)	
LC50 - Fish [1]	0.515 mg/l
LC50 - Other aquatic organisms [1]	7.75 ml/l 3 h
NOEC (acute)	0.032 34 d (Pimephales promelas)

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12.2. Persistence and degradability

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Persistence and degradability	No data available.
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quartz, conc respirable crystalline silica<1 % (14808-60-7)

Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

methyl-4-toluenesulfonate (80-48-8)

Persistence and degradability	Readily biodegradable in water.
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2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane (1675-54-3)

Persistence and degradability	Not readily biodegradable in water.
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Reaktionsmasse aus 2,2'-[Methylenbis(2,1-phenylenoxymethylen)]bis(oxiran) und 2,2'-[Methylenbis(4,1-phenylenoxymethylen)]bis(oxiran) und 2-({2-[4-(Oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxiran

Persistence and degradability	Rapidly degradable
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Fatty acids, C16-C18 and C18-unsaturated, ME esters, epoxidized (158318-67-3)

Persistence and degradability	Rapidly degradable
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Quaternäre Ammoniumverbindungen, Benzyl-C12-18-alkyldimethyl, Chloride (68391-01-5)

Persistence and degradability	Rapidly degradable
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12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (Log Pow)	Not determined
Partition coefficient n-octanol/water (Log Kow)	Not determined
Bioaccumulative potential	No additional information available.

quartz, conc respirable crystalline silica<1 % (14808-60-7)

Bioaccumulative potential	No bioaccumulation data available.
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methyl-4-toluenesulfonate (80-48-8)

Partition coefficient n-octanol/water (Log Pow)	1.88 (OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane (1675-54-3)

BCF - Other aquatic organisms [1]	31 (QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	≥ 2.918 (Experimental value, EU Method A.8: Partition Coefficient, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

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Ecology - soil	No information available.
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quartz, conc respirable crystalline silica<1 % (14808-60-7)

Surface tension	No data available in the literature
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quartz, conc respirable crystalline silica<1 % (14808-60-7)	
Ecology - soil	Low potential for mobility in soil.
methyl-4-toluenesulfonate (80-48-8)	
Ecology - soil	No (test)data on mobility of the substance available.
2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane (1675-54-3)	
Surface tension	58.7 – 58.9 mN/m (20 °C, EU Method A.5: Surface tension)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	Low potential for adsorption in soil.

12.5. Results of PBT and vPvB assessment

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PBT: not relevant – no registration required	
vPvB: not relevant – no registration required	
Results of PBT assessment	No available information on product
Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	quartz, conc respirable crystalline silica<1 % (14808-60-7), methyl-4-toluenesulfonate (80-48-8)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	quartz, conc respirable crystalline silica<1 % (14808-60-7), methyl-4-toluenesulfonate (80-48-8)

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Other adverse effects : No available information on product.

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Other information	Avoid release to the environment,Do not allow into drains or water courses

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Do not discharge into drains or the environment. Harmful to aquatic organisms.
Product/Packaging disposal recommendations	: Packaging that cannot be cleaned should be disposed of like the substance.
European List of Waste (LoW, EC 2000/532)	: 08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09 08 04 99 - wastes not otherwise specified

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				

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ADR	IMDG	IATA	ADN	RID
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(b)	2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane ; Fatty acids, C16-C18 and C18-unsaturated, ME esters, epoxidized
3(c)	2,2-bis-[4(2,3-epoxypropoxy)phenyl]propane

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

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Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on 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.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. Not classified	Flammable liquids Not classified
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

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Full text of H- and EUH-statements:	
Skin Sens. 1B	Skin sensitisation, category 1B
H302	Harmful if swallowed.
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.
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.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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Safety Data Sheet

according to Regulation (EU) 2015/830

Issue date: 10/27/2017 Revision date: 3/9/2022

Supersedes version of:
3/16/2021

Version: 4.0

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

1.1. Product identifier

Product form : Mixture
Product name : ARDEX GF 300 Komponente B
Product code : 7601, 7602

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

1.2.1. Relevant identified uses

Main use category : For professional use only
Industrial/Professional use spec : Construction materials
Use of the substance/mixture : Grouting Compounds

Function or use category : Construction materials

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

ARDEX Baustoff GmbH
Hürmer Str. 40
A-3382 Loosdorf - Österreich
T +43/2754/7021-0 - F +43/2754/2490
E-mail address of competent person responsible for the SDS : produktion@ardex.at

1.4. Emergency telephone number

Emergency number : +43-(0)1-4064343 (Vergiftungsinformationszentrale Österreich)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302
Skin corrosion/irritation, Category 1, Sub-Category 1B H314
Serious eye damage/eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
Reproductive toxicity, Category 2 H361
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

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

Adverse physicochemical, human health and environmental effects

Causes serious eye irritation. May cause an allergic skin reaction.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05



GHS07



GHS08



GHS09

Signal word (CLP) :

Danger

Hazardous ingredients :

trimethylhexane-1,6-diamine, 4-tert-butylphenol, Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated, m-Xylylendiamin, 1,2-ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyether, 4,4'-Isopropylidenediphenol; oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Polyamin Polymer, Isophorondiamine, Phenol, styrolized, N,N-diethyl-1,3-diaminopropane, 2,2'-iminodiethylamine; diethylenetriamine

Hazard statements (CLP) : H302 - Harmful if swallowed.

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	H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H361 - Suspected of damaging fertility.. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P102 - Keep out of reach of children. P260 - Do not breathe spray, vapours, gas, mist, fume, dust. P264 - Wash hands thoroughly after handling. P321 - Specific treatment (see supplemental first aid instruction on this label). P280 - Wear protective gloves, protective clothing, eye protection, face protection. P310 - Immediately call a POISON CENTER or doctor. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.
Extra phrases	: Dispose of contents/container in accordance with regional/national/international/local regulations.

Labelling according to Directive 67/548/EEC or 1999/45/EC

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
trimethylhexane-1,6-diamine	(CAS-No.) 25513-64-8 (EC-No.) 247-063-2 (REACH-no) 01-2119560598-25	15 - < 20	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317
4-tert-butylphenol substance listed as REACH Candidate	(CAS-No.) 98-54-4 (EC-No.) 202-679-0 (EC Index-No.) 604-090-00-8 (REACH-no) 01-2119489419-21	10 - < 15	Repr. 2, H361f Eye Dam. 1, H318 Skin Irrit. 2, H315 Aquatic Chronic 1, H410
benzyl alcohol	(CAS-No.) 100-51-6 (EC-No.) 202-859-9 (EC Index-No.) 603-057-00-5 (REACH-no) 01-2119492630-38	10 - < 15	Acute Tox. 4 (Inhalation), H302 Acute Tox. 4 (Oral), H302
Linseed oil polymer with bisphenol A, bisphenol A diglycidyl ether, diethylene triamine, formaldehyde, glycidyl ether and pentaethylene hexamine	(CAS-No.) 68915-81-1 (EC-No.) 639-495-9	5 - < 10	Skin Irrit. 2, H315 Eye Dam. 1, H318
Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated	(CAS-No.) 1173092-74-4 (EC-No.) 630-554-4	5 - < 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
m-Xylylendiamin	(CAS-No.) 1477-55-0 (EC-No.) 216-032-5 (REACH-no) 01-2119480150-50	5 - < 10	Skin Sens. 1B, H317 Acute Tox. 4 (Inhalation), H302 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412
1,2-ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl polyether	(CAS-No.) 84144-79-6 (EC-No.) 282-199-6 (REACH-no) 01-2120762088-49	1 - < 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-Isopropylidenediphenol; oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	(CAS-No.) 38294-64-3 (EC-No.) 500-101-4 (REACH-no) 01-2119965165-33	1 - < 5	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Polyamin Polymer	(CAS-No.) 2408029-04-7 (EC-No.) Polymer	1 - < 5	Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412

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Isophorondiamine	(CAS-No.) 2855-13-2 (EC-No.) 220-666-8 (EC Index-No.) 612-067-00-9 (REACH-no) 01-2119514687-32	1 - < 5	Skin Sens. 1, H317 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Polyamine adduct	(CAS-No.) 260549-92-6	1 - < 5	Eye Dam. 1, H318
Trimethylhexamethylendiamin, cyanethyliert	(CAS-No.) 90530-20-4 (EC-No.) 292-059-6 (REACH-no) 01-2120773937-35	1 - < 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Phenol, styrolized	(CAS-No.) 61788-44-1 (EC-No.) 262-975-0 (REACH-no) 01-2119980970-27	1 - < 5	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
N,N-diethyl-1,3-diaminopropane	(CAS-No.) 104-78-9 (EC-No.) 203-236-4 (EC Index-No.) 612-062-00-1	< 1	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317
2,2'-iminodiethylamine; diethylenetriamine	(CAS-No.) 111-40-0 (EC-No.) 203-865-4 (EC Index-No.) 612-058-00-X (REACH-no) 01-2119473793-27	< 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 2 (Inhalation:vapour), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Move the affected person away from the contaminated area and into the fresh air. Protective equipment emergency responders.
First-aid measures after inhalation	: Get medical advice/attention if you feel unwell. Allow affected person to breathe fresh air.
First-aid measures after skin contact	: Immediately wash with water and soap and rinse thoroughly. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Consult an eye specialist. In case of eye contact, immediately rinse with clean water for 10-15 minutes.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth out with water. Call a physician immediately. Potential adverse human health effects and symptoms. Gastric perforation. Do not use neutralisation products.

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

Symptoms/effects	: May cause an allergic skin reaction. Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: None reasonably foreseeable.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Causes severe burns.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Irritating to the respiratory system and mucous membranes. Harmful if swallowed.
Chronic symptoms	: Suspected of damaging fertility.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: high volume water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not flammable.
Explosion hazard	: No additional information available.
Reactivity in case of fire	: No additional information available.
Hazardous decomposition products in case of fire	: On burning: release of carbon monoxide - carbon dioxide.

5.3. Advice for firefighters

Precautionary measures fire	: Evacuate area. , possibly liquid-tight full protective suitFull suit required.
Firefighting instructions	: Contain the extinguishing fluids by bunding. Do not allow run-off from fire-fighting to enter drains or water courses.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

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Other information : Use water spray or fog for cooling exposed containers. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Do not allow run-off from fire fighting to enter drains or water courses. Use water spray to disperse the vapours.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate air ventilation. Do not breathe gas/fumes/vapour/spray. Avoid all contact with skin, eyes, or clothing.

6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment. See Section 7. Concerning personal protective equipment to use, see section 8.

Emergency procedures : Avoid contact with skin and eyes.

Measures in case of dust release : Ensure adequate air ventilation.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Protective gloves. Safety glasses. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Do not allow to enter drains or water courses.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Other information : Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

See Section 7. See Section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : See Section 8. Provide adequate ventilation. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Precautions for safe handling : Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Take off immediately all contaminated clothing. When using do not eat, drink or smoke. Use suitable eye/skin protection. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store locked up. Store in a place accessible by authorised persons only. Use appropriate ventilation. Provide local exhaust or general room ventilation.

Storage conditions : Keep container tightly closed.

Information on mixed storage : No special measures required.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

4-tert-butylphenol (98-54-4)		
Austria	Local name	p-tert-Butylphenol
Austria	MAK (OEL TWA)	0.5 mg/m ³
Austria	MAK (OEL TWA) [ppm]	0.08 ppm
Austria	MAK (OEL STEL)	2.5 mg/m ³ (2x 30(Miw) min)
Austria	MAK (OEL STEL) [ppm]	0.4 ppm (2x 30(Miw) min)
Austria	Remark	H, Sh. Fortpflanzungsgefährdend: f
m-Xylylendiamin (1477-55-0)		
Austria	Local name	α,α'-Diamino-1,3-xylo
Austria	MAK (OEL TWA)	0.1 mg/m ³
Austria	MAK (OEL STEL)	0.1 mg/m ³ (Mow)
Austria	OEL C	0.1 mg/m ³

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2,2'-iminodiethylamine; diethylenetriamine (111-40-0)		
Austria	Local name	Diethylentriamin
Austria	MAK (OEL TWA)	4 mg/m³
Austria	MAK (OEL TWA) [ppm]	1 ppm
Austria	Remark	Sh

4-tert-butylphenol (98-54-4)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal		0.071 mg/kg bw/day
Long-term - systemic effects, inhalation		0.5 mg/m³
DNEL/DMEL (General population)		
Long-term - systemic effects, oral		0.026 mg/kg bw/day
Long-term - systemic effects, inhalation		0.09 mg/m³
Long-term - systemic effects, dermal		0.026 mg/kg bw/day
PNEC (Water)		
PNEC aqua (freshwater)		0.01 mg/l
PNEC aqua (marine water)		0.001 mg/l
PNEC (Sediment)		
PNEC sediment (freshwater)		0.27 mg/kg dwt
PNEC sediment (marine water)		0.027 mg/kg dwt
PNEC (Soil)		
PNEC soil		0.25 mg/kg dwt
PNEC (Oral)		
PNEC oral (secondary poisoning)		46.67 mg/kg food
PNEC (STP)		
PNEC sewage treatment plant		1.5 mg/l

benzyl alcohol (100-51-6)		
DNEL/DMEL (Workers)		
Acute - systemic effects, dermal		40 mg/kg bw/day
Acute - systemic effects, inhalation		110 mg/m³
Long-term - systemic effects, dermal		8 mg/kg bw/day
Long-term - systemic effects, inhalation		22 mg/m³
DNEL/DMEL (General population)		
Acute - systemic effects, dermal		20 mg/kg bw/day
Acute - systemic effects, inhalation		27 mg/m³
Acute - systemic effects, oral		20 mg/kg bw/day
Long-term - systemic effects, oral		4 mg/kg bw/day
Long-term - systemic effects, inhalation		5.4 mg/m³
Long-term - systemic effects, dermal		4 mg/kg bw/day
PNEC (Water)		
PNEC aqua (freshwater)		1 mg/l
PNEC aqua (marine water)		0.1 mg/l
PNEC (Sediment)		
PNEC sediment (freshwater)		5.27 mg/kg dwt
PNEC sediment (marine water)		0.527 mg/kg dwt
PNEC (Soil)		
PNEC soil		0.456 mg/kg dwt
PNEC (STP)		
PNEC sewage treatment plant		39 mg/l

m-Xylylendiamin (1477-55-0)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal		0.33 mg/kg bw/day
Long-term - systemic effects, inhalation		1.2 mg/m³
Long-term - local effects, inhalation		0.2 mg/m³
PNEC (Water)		
PNEC aqua (freshwater)		0.094 mg/l
PNEC aqua (marine water)		0.009 mg/l
PNEC (Sediment)		
PNEC sediment (freshwater)		12.4 mg/kg dwt
PNEC sediment (marine water)		1.24 mg/kg dwt
PNEC (Soil)		

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m-Xylylendiamin (1477-55-0)	
PNEC soil	2.44 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
1,2-ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyether (84144-79-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	0.66 mg/kg bodyweight/day
Acute - systemic effects, inhalation	23.35 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.00017 mg/l
PNEC aqua (marine water)	0.000017 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.524 mg/kg dwt
PNEC sediment (marine water)	0.0524 mg/kg dwt
Trimethylhexamethylendiamin, cyanethyliert (90530-20-4)	
PNEC (Water)	
PNEC aqua (freshwater)	0.0034 mg/l
PNEC aqua (intermittent, freshwater)	0.034 mg/l
Phenol, styrolized (61788-44-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	21 mg/kg bw/day
Long-term - systemic effects, inhalation	74 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	7.5 mg/kg bw/day
Long-term - systemic effects, inhalation	13.1 mg/m³
Long-term - systemic effects, dermal	7.5 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	4 µg/l
PNEC aqua (marine water)	0.4 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.248 mg/kg dwt
PNEC sediment (marine water)	24.8 µg/kg dw
PNEC (Soil)	
PNEC soil	47.3 µg/kg dw
PNEC (STP)	
PNEC sewage treatment plant	36.2 mg/l

8.2. Exposure controls

Appropriate engineering controls:

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Personal protective equipment:

Gloves. In case of inadequate ventilation wear respiratory protection. Safety glasses.

Materials for protective clothing:

protective clothing

Hand protection:

Wear suitable gloves resistant to chemical penetration. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Eye protection:

Wear closed safety glasses

Skin and body protection:

Wear proper protective equipment

Respiratory protection:

Use appropriate ventilation. Do not breathe gas/fumes/vapour/spray. In case of inadequate ventilation wear respiratory protection.

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Other information:

Observe general hygiene measures when handling chemicals. Wash hands before breaks and after work. Do not smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Yellow. brown.
Odour	: Amine-like.
Odour threshold	: No data available
pH	: 10
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 200 °C
Flash point	: > 96 °C
Auto-ignition temperature	: > 365 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 19.95 hPa (20°C)
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.01 g/cm³
Solubility	: Insoluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 700 – 800 mPa.s
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

VOC content	: 31.465 % (2004/42/EG)
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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : ATE. oral. 1285,6 mg/kg (calculated due date)

ATE CLP (oral)	1123.261 mg/kg bodyweight
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trimethylhexane-1,6-diamine (25513-64-8)	
LD50 oral	910 mg/kg
4-tert-butylphenol (98-54-4)	
LD50 oral rat	> 2000 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 16000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 5.6 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))
benzyl alcohol (100-51-6)	
LD50 oral rat	1620 mg/kg bw/day (Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg (EPA OTS 798.1100, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 4.18 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, (maximum achievable concentration), Inhalation (aerosol), 14 day(s))
m-Xylylendiamin (1477-55-0)	
LD50 oral rat	930 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 3100 mg/kg bodyweight (24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal rabbit	2000 mg/kg (Rabbit)
LC50 Inhalation - Rat	1.34 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
Isophorondiamine (2855-13-2)	
LD50 oral rat	1030 mg/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 5.01 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
Polyamine adduct (260549-92-6)	
LD50 oral	≥ 2000 mg/kg
LD50 dermal	≥ 2000 mg/kg
Trimethylhexamethyldiamin, cyanethyliert (90530-20-4)	
LD50 oral rat	640 mg/kg
LD50 dermal rabbit	> 20000 mg/kg
Phenol, styrolized (61788-44-1)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 oral	≥ 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Skin, 14 day(s))
LD50 dermal rabbit	> 7940 mg/kg
LD50 dermal	≥ 2000 mg/kg
LC50 Inhalation - Rat	> 4.92 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
N,N-diethyl-1,3-diaminopropane (104-78-9)	
LD50 oral	550 mg/kg
LD50 dermal	615 mg/kg
2,2'-iminodiethylamine; diethylenetriamine (111-40-0)	
LD50 oral	1553 mg/kg
LD50 dermal	1045 ml/kg

Skin corrosion/irritation	: Causes severe skin burns. pH: 10
Serious eye damage/irritation	: Causes serious eye damage. pH: 10
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility..
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

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Aspiration hazard	: Not classified
Additional information	: May be harmful if swallowed and enters airways
Potential adverse human health effects and symptoms	: Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

benzyl alcohol (100-51-6)	
LC50 - Fish [1]	460 mg/l (EPA OPP 72-1, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	230 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	770 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

m-Xylylendiamin (1477-55-0)	
LC50 - Fish [1]	87.6 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes, Semi-static system, Fresh water, Experimental value, Nominal concentration)
LC50 - Fish [2]	> 100 mg/l (LC50; 96 h)
EC50 - Crustacea [1]	15.2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	33.3 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Experimental value, Nominal concentration)
Threshold limit - Algae [1]	12 mg/l (EC50; 72 h)

1,2-ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyether (84144-79-6)	
LC50 - Fish [1]	0.66 mg/l
ErC50 algae	0.17 mg/l

Isophorondiamine (2855-13-2)	
LC50 - Fish [1]	110 mg/l (EU Method C.1, 96 h, Leuciscus idus, Semi-static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	23 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	37 mg/l (EU Method C.3, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Cell numbers)

Trimethylhexamethyldiamin, cyanethyliert (90530-20-4)	
LC50 - Fish [1]	100 mg/l

Phenol, styrolized (61788-44-1)	
LC50 - Fish [1]	5.6 mg/l (96 h, Pisces, Experimental value)
EC50 - Crustacea [1]	4.6 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	0.326 mg/l (Algae, Literature study)

12.2. Persistence and degradability

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Persistence and degradability	No data available.

4-tert-butylphenol (98-54-4)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.77 g O ₂ /g substance

benzyl alcohol (100-51-6)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.

m-Xylylendiamin (1477-55-0)	
Persistence and degradability	Not readily biodegradable in water.

Isophorondiamine (2855-13-2)	
Persistence and degradability	Not readily biodegradable in water.

Phenol, styrolized (61788-44-1)	
Persistence and degradability	Not readily biodegradable in water.

N,N-diethyl-1,3-diaminopropane (104-78-9)	
Persistence and degradability	Biodegradable in water.

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12.3. Bioaccumulative potential

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Bioaccumulative potential	No data available.
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4-tert-butylphenol (98-54-4)

BCF - Fish [1]	20 – 48 (OECD 305: Bioconcentration: Flow-Through Fish Test, 8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 23 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

benzyl alcohol (100-51-6)

BCF - Fish [1]	1.37 l/kg (BCFBAF v3.01, Estimated value)
Partition coefficient n-octanol/water (Log Pow)	1 – 1.1 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

m-Xylylendiamin (1477-55-0)

Partition coefficient n-octanol/water (Log Pow)	0.18 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

Isophorondiamine (2855-13-2)

BCF - Fish [1]	1.827 – 3.16 (BCFBAF v3.01, Pisces, Estimated value)
Partition coefficient n-octanol/water (Log Pow)	0.99 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 23 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

Phenol, styrolized (61788-44-1)

BCF - Fish [1]	3246 l/kg (BCFBAF v3.01, Pisces, Fresh water, Weight of evidence, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	3.03 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 23.6 °C)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

N,N-diethyl-1,3-diaminopropane (104-78-9)

Partition coefficient n-octanol/water (Log Pow)	0.123 – 0.36
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

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Ecology - soil	No data available.
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4-tert-butylphenol (98-54-4)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.1 (log Koc, QSAR)
Ecology - soil	Low potential for mobility in soil.

benzyl alcohol (100-51-6)

Surface tension	39 mN/m (20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.122 – 1.332 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	Highly mobile in soil.

m-Xylylendiamin (1477-55-0)

Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.11 (log Koc, QSAR)
Ecology - soil	Low potential for mobility in soil.

Isophorondiamine (2855-13-2)

Surface tension	3470 mN/m (23 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.97 (log Koc, QSAR)
Ecology - soil	Low potential for adsorption in soil.

Phenol, styrolized (61788-44-1)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.145 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Ecology - soil	Low potential for mobility in soil.

12.5. Results of PBT and vPvB assessment

Component	
4-tert-butylphenol (98-54-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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Component	
benzyl alcohol (100-51-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
m-Xylylendiamin (1477-55-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Isophorondiamine (2855-13-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Phenol, styrolized (61788-44-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects	: Toxic to aquatic life with long lasting effects.
Additional information	: Do not allow into drains or water courses. Keep contaminated washing water and dispose of appropriately

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations. Prevent entry to sewers and public waters. Avoid sub-soil penetration. Hazardous waste.
Sewage disposal recommendations	: Do not discharge into drains or the environment.
Product/Packaging disposal recommendations	: Packaging that cannot be cleaned should be disposed of like the substance.
European List of Waste (LoW) code	: 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances Uncleaned packagings 08 04 99 - wastes not otherwise specified 08 04 13* - aqueous sludges containing adhesives or sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
2735	2735	2735	2735	2735
14.2. UN proper shipping name				
AMINES, LIQUID, CORROSIVE, N.O.S. (trimethylhexane-1,6-diamine)	AMINES, LIQUID, CORROSIVE, N.O.S. (trimethylhexane-1,6-diamine)	Amines, liquid, corrosive, n.o.s. (trimethylhexane-1,6-diamine)	AMINES, LIQUID, CORROSIVE, N.O.S. (trimethylhexane-1,6-diamine)	AMINES, LIQUID, CORROSIVE, N.O.S. (trimethylhexane-1,6-diamine)
Transport document description				
UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (trimethylhexane-1,6-diamine), 8, II, (E), ENVIRONMENTALLY HAZARDOUS	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (trimethylhexane-1,6-diamine), 8, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 2735 Amines, liquid, corrosive, n.o.s. (trimethylhexane-1,6-diamine), 8, II, ENVIRONMENTALLY HAZARDOUS	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (trimethylhexane-1,6-diamine), 8, II, ENVIRONMENTALLY HAZARDOUS	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (trimethylhexane-1,6-diamine), 8, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	: C7
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2
Transport category (ADR)	: 2

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Orange plates

:



Tunnel restriction code (ADR)

: E

- Transport by sea

Special provisions (IMDG)

: 274

Limited quantities (IMDG)

: 1 L

EmS-No. (Fire)

: F-A

EmS-No. (Spillage)

: S-B

Segregation (IMDG)

: SGG18, SG35

- Air transport

PCA Excepted quantities (IATA)

: E2

PCA Limited quantities (IATA)

: Y840

PCA limited quantity max net quantity (IATA)

: 0.5L

PCA max net quantity (IATA)

: 1L

- Inland waterway transport

Classification code (ADN)

: C7

Limited quantities (ADN)

: 1 L

Excepted quantities (ADN)

: E2

- Rail transport

Classification code (RID)

: C7

Limited quantities (RID)

: 1L

Excepted quantities (RID)

: E2

Transport category (RID)

: 2

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

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	N,N-diethyl-1,3-diaminopropane
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	ARDEX GF 300 Komponente B ; Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated ; benzyl alcohol ; m-Xylylendiamin ; Phenol, styrolized ; Polyamine adduct ; trimethylhexane-1,6-diamine ; Trimethylhexamethylendiamin, cyanethyliert ; 1,2-ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyether ; Linseed oil polymer with bisphenol A, bisphenol A diglycidyl ether, diethylene triamine, formaldehyde, glycidyl ether and pentaethylene hexamine ; N,N-diethyl-1,3-diaminopropane ; 2,2'-iminodiethylamine; diethylenetriamine
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	ARDEX GF 300 Komponente B ; Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated ; m-Xylylendiamin ; Phenol, styrolized ; Trimethylhexamethylendiamin, cyanethyliert ; 1,2-ethanediamine, N-(2-aminoethyl)-, reaction products with glycidyl tolyether
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	N,N-diethyl-1,3-diaminopropane

Contains a substance on the REACH candidate list: 4-tert-butylphenol (EC 202-679-0, CAS 98-54-4)

Contains no REACH Annex XIV substances

VOC content

: 31.465 % (2004/42/EG)

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Seveso Information : E1

15.1.2. National regulations

Austria

Austrian National Regulations : Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Employment prohibitions and restrictions according to MuSchArbV have to be observed.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on 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.

Full text of H- and EUH-statements:

Acute Tox. 2 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 2
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful 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.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
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.
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

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Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.