

B+BTec BV
4762 AH Zevenbergen

Date printed 12.12.2014, Revision 19.02.2013

Version 01

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

1.1 Product identifier

BIS-PE 3:1, Component A

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

1.2.1 Relevant uses

Compound mortar

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company	B+BTec BV Munterij 8 4762 AH Zevenbergen / HOLLAND Phone +31 (0) 168 331 260 Fax +31 (0) 168 331 280 Homepage www.bbtec.nl E-mail info@bbtec.nl
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Address enquiries to

Technical information	info@bbtec.nl
Safety Data Sheet	sdb@chemiebuero.de

1.4 Emergency telephone number

Company	+31 (0) 168 33 12 60 (8:00 - 17:00)
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Skin Irrit. 2: H315 Causes skin irritation.
Eye Irrit. 2: H319 Causes serious eye irritation.
Skin Sens. 1: H317 May cause an allergic skin reaction.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

Xi, Irritant - R 36/38: Irritating to eyes and skin.
Sensitizing. - R 43: May cause sensitisation by skin contact.
N, Dangerous for the environment - R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms



Signal word

WARNING

Contains:

Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight \leq 700)

Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight \leq 700)

1,6-Bis(2,3-epoxypropoxy)hexane

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P280 Wear eye protection/face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

Special labelling

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards

Human health dangers

People who are allergic to epoxide should avoid the use of the product.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
25 - <50	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight \leq 700) CAS: 25068-38-6, EINECS/ELINCS: 500-033-5, EU-INDEX: 603-074-00-8 GHS/CLP: Eye Irrit. 2: H319 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Aquatic Chronic 2: H411 EEC: Xi-N, R 36/38-43-51/53
10 - <20	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight \leq 700) CAS: 9003-36-5, EINECS/ELINCS: 500-006-8 GHS/CLP: Skin Sens. 1: H317 - Aquatic Chronic 2: H411 - Eye Irrit. 2: H319 - Skin Irrit. 2: H315 EEC: Xi-N, R 36/38-43-51/53
10 - <20	1,6-Bis(2,3-epoxypropoxy)hexane CAS: 16096-31-4, EINECS/ELINCS: 240-260-4 GHS/CLP: Skin Sens. 1: H317 - Aquatic Chronic 3: H412 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 EEC: Xi, R 36/38-43-52/53
1 - <10	Propylene carbonate CAS: 108-32-7, EINECS/ELINCS: 203-572-1, EU-INDEX: 607-194-00-1 GHS/CLP: Eye Irrit. 2: H319 EEC: Xi, R 36

Comment on component parts

It does not contain a component of the PRTR register (Pollutant Release and Transfer Register).

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements and R-phrases: see SECTION 16.

All chemical substances in this material are included on or exempted from listing on the ENCS Inventory.

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SECTION 4: First aid measures**4.1 Description of first aid measures**

General information	Change soaked clothing immediately.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
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.
Ingestion	Supply with medical care. Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures**5.1 Extinguishing media**

Suitable extinguishing media	foam, dry powder, water spray jet, carbon dioxide
Extinguishing media that must not be used	Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Chlorine compounds.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.
Use personal protective equipment.
High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (e.g. sand, sawdust, generalpurpose binder, diatomaceous earth).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

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SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Use only in well-ventilated areas.
 Keep away from all sources of ignition - Refrain from smoking.
 Take precautionary measures against static discharges.
 Wash hands before breaks and after work.
 Use barrier skin cream.
 Take off contaminated clothing and wash before reuse.
 Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
 Prevent penetration into the ground.
 Do not store together with food and animal food/diet.
 Keep container in a well-ventilated place.
 Keep container tightly closed.
 Keep in a cool place. Store in a dry place.
 Protect from atmospheric moisture and water.
 Recommended storage temperature: 5 - 25 °C

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection**8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

not applicable

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Tightly fitting goggles.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Nitrile rubber, >480 min (EN 374).
Skin protection	Protective clothing.
Other	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Respiratory protection	If ventilation insufficient, wear respiratory protection. Short term: filter apparatus, combination filter A-P2.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	pasty
Color	light beige
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	not determined
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,55 (23°C / 73,4°F)
Bulk density [kg/m ³]	not applicable
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not determined
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.
Reactions with alkalis, amines and strong acids.
Reactions with alcohols.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, dermal, > 2000 mg/kg.
ATE-mix, oral, Rat: > 2000 mg/kg.

Range [%]	Substance
25 - <50	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6
	LD50, dermal, Rabbit: 22800 mg/kg bw (GESTIS).
	LD50, oral, Rat: 11400 mg/kg bw (GESTIS).
10 - <20	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 9003-36-5
	LD50, dermal, Rabbit: 400 mg/kg bw (GESTIS).
	LD50, oral, Rat: 2000 mg/kg bw (GESTIS).
1 - <10	Propylene carbonate, CAS: 108-32-7
	LD50, oral, Rat: 33300 mg/kg (IUCLID).
	LD50, dermal, Rabbit: > 20000 mg/kg (IUCLID).

Serious eye damage/irritation	Irritant
Skin corrosion/irritation	Irritant
Respiratory or skin sensitisation	Sensitizing.
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
25 - <50	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6
	LC50, (96h), Pimephales promelas: 3,1 mg/l (Lit.).
	EC50, (48h), Daphnia magna: 1,4-1,7 mg/l (Lit.).
	IC50, Bacteria: > 42,6 mg/l/18h (Lit.).
10 - <20	1,6-Bis(2,3-epoxypropoxy)hexane, CAS: 16096-31-4
	LC50, (96h), Brachidanio rerio: 17,1 - 30,9 mg/l.
	EC50, (24h), Daphnia magna: 47 mg/l.
1 - <10	Propylene carbonate, CAS: 108-32-7
	EC50, (96h), Cyprinus carpio: > 1000 mg/l (IUCLID).
	EC50, (48h), Daphnia magna: > 1000 mg/l (IUCLID).

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12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

The product was classified on the basis of the calculation procedure of the preparation directive.
Ecological data of complete product are not available.
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
Do not discharge product unmonitored into the environment.
The product contains organically bound halogen in accordance with the formulation.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended)

080409*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Dispose full / partially emptied cartridges as hazardous waste in accordance with official regulations.

Waste no. (recommended)

150110*

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

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14.2 UN proper shipping name

Transport by land according to ADR/RID UN 3077 Environmentally hazardous substance, solid, n.o.s. (Bisphenol A/F Epoxy resin) 9 III

- Classification Code

M7

- Label



- ADR LQ

5 kg

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN)

UN 3077 Environmentally hazardous substance, solid, n.o.s. (Bisphenol A/F Epoxy resin) 9 III

- Classification Code

M7

- Label



Marine transport in accordance with IMDG

UN 3077 Environmentally hazardous substance, solid, n.o.s. (Bisphenol A/F Epoxy resin) 9 III
MARINE POLLUTANT

- EMS

F-A, S-F

- Label



- IMDG LQ

5 kg

Air transport in accordance with IATA UN 3077 Environmentally hazardous substance, solid, n.o.s. (Bisphenol A/F Epoxy resin) 9 III

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS

DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).

NATIONAL REGULATIONS (GB):

EH40/2005 Workplace exposure limits (Second edition, published December 2011).
CHIP 3/ CHIP 4

- Observe employment restrictions for people

yes

- VOC (1999/13/CE)

not applicable

15.2 Chemical safety assessment

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

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SECTION 16: Other information**16.1 R-phrases (SECTION 3)**

R 36/38: Irritating to eyes and skin.
 R 43: May cause sensitisation by skin contact.
 R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R 36: Irritating to eyes.

16.2 Hazard statements (SECTION 3)

H412 Harmful to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H317 May cause an allergic skin reaction.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.

16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.4 Other information**Classification procedure**

Skin Irrit. 2: H315 Causes skin irritation. ()
 Eye Irrit. 2: H319 Causes serious eye irritation. ()
 Skin Sens. 1: H317 May cause an allergic skin reaction. ()
 Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. ()

Modified position

none

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****BIS-PE 3:1, Component B****1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**Compound mortar
Hardener**1.2.2 Uses advised against**

None known.

1.3 Details of the supplier of the safety data sheet

Company	B+BTec BV Munterij 8 4762 AH Zevenbergen / HOLLAND Phone +31 (0) 168 331 260 Fax +31 (0) 168 331 280 Homepage www.bbtec.nl E-mail info@bbtec.nl
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Address enquiries to

Technical information	info@bbtec.nl
Safety Data Sheet	sdb@chemiebuero.de

1.4 Emergency telephone number

Company	+31 (0) 168 33 12 60 (8:00 - 17:00)
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SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**

Acute Tox. 4: H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
 Skin Corr. 1B: H314 Causes severe skin burns and eye damage.
 Skin Sens. 1: H317 May cause an allergic skin reaction.
 Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.
 Muta. 2: H341 Suspected of causing genetic defects.

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

Xn, Harmful - R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
 C, Corrosive - R 34: Causes burns.
 Sensitizing. - R 43: May cause sensitisation by skin contact.
 R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 Xn, mutagen category 3 - R 68: Possible risk of irreversible effects.

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2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008**Hazard pictograms****Signal word**

DANGER

Contains:

Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)
 3-Aminomethyl-3,5,5-trimethylcyclohexylamine
 Formaldehyde, oligomeric reaction products with 4,4'-isopropylidenediphenol and diethylenetriamine
 m-Phenylenebis(methylamine)
 2,2'-Iminodiethylamine
 Phenol

Hazard statements

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H412 Harmful to aquatic life with long lasting effects.
 H341 Suspected of causing genetic defects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P201 Obtain special instructions before use.
 P260 Do not breathe vapours.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face 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/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.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P310 Immediately call a POISON CENTER/doctor/...
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P363 Wash contaminated clothing before reuse.
 P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.
 ~45 % of the mixture consists of ingredient(s) of unknown toxicity.
 Contains ~45 % of components with unknown hazards to the aquatic environment.

2.3 Other hazards**Human health dangers**

People who are allergic to amines should avoid the use of the product.

Other hazards

Further hazards were not determined with the current level of knowledge.

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SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
10 - <40	3-Aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 2855-13-2, EINECS/ELINCS: 220-666-8, EU-INDEX: 612-067-00-9 GHS/CLP: Acute Tox. 4: H302 H312 - Skin Corr. 1B: H314 - Skin Sens. 1: H317 - Aquatic Chronic 3: H412 EEC: C, R 21/22-34-43-52/53
10 - <40	Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine) CAS: 57214-10-5, EINECS/ELINCS: 500-137-0 GHS/CLP: Skin Corr. 1B: H314 - Skin Sens. 1: H317 EEC: C, R 34-43
10 - <25	Formaldehyde, oligomeric reaction products with 4,4'-isopropylidenediphenol and diethylenetriamine CAS: 77138-45-5, EINECS/ELINCS: 500-263-6 GHS/CLP: Skin Corr. 1B: H314 - Skin Sens. 1: H317 - Eye Dam. 1: H318 EEC: C, R 34-43
1 - <10	Benzyl alcohol CAS: 100-51-6, EINECS/ELINCS: 202-859-9, EU-INDEX: 603-057-00-5 GHS/CLP: Acute Tox. 4: H302 H332 EEC: Xn, R 20/22
1 - <10	m-Phenylenebis(methylamine) CAS: 1477-55-0, EINECS/ELINCS: 216-032-5 GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1A: H314 - Skin Sens. 1: H317 - Aquatic Chronic 3: H412 - Acute Tox. 3: H331 EEC: C, R 20/22-35-43-52/53
1 - <5	2,2'-Iminodiethylamine CAS: 111-40-0, EINECS/ELINCS: 203-865-4, EU-INDEX: 612-058-00-x GHS/CLP: Acute Tox. 4: H302 H312 - Skin Corr. 1B: H314 - Skin Sens. 1: H317 EEC: C, R 21/22-43-34
1 - <3	Phenol CAS: 108-95-2, EINECS/ELINCS: 203-632-7, EU-INDEX: 604-001-00-2 GHS/CLP: Muta. 2: H341 - Acute Tox. 3: H301 - Acute Tox. 3: H311 - Acute Tox. 3: H331 - STOT RE 2: H373 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 EEC: T-C-Xn, R 23/24/25-34-48/20/21/22-68

Comment on component parts

This product may contain one or more components that are not listed in ENCS. Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%. For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose of safely.

Inhalation

Remove the victim into fresh air and keep him calm.
Seek medical advice immediately.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Seek medical advice immediately.

Ingestion

Do not induce vomiting.
Seek medical advice immediately.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Product is caustic.
Allergic reactions

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4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures**5.1 Extinguishing media****Suitable extinguishing media** foam, dry powder, water spray jet, carbon dioxide**Extinguishing media that must not be used** Full water jet**5.2 Special hazards arising from the substance or mixture**

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO)

Nitrogen oxides (NOx).

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Wear full protective suit.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Use personal protective equipment.

High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Take up residues with absorbent material (e.g. sand, sawdust, generalpurpose binder, diatomaceous earth).

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Use only in well-ventilated areas.

Remove contaminated soaked clothing immediately and dispose of safely.

Do not eat, drink, smoke or take drugs at work.

Wash hands before breaks and after work.

Use barrier skin cream.

Showers and eye wash stations should be provided.

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7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Do not store together with food and animal food/diet.
Keep container in a well-ventilated place.
Keep container tightly closed.
Keep in a cool place. Store in a dry place.
Protect from atmospheric moisture and water.
Recommended storage temperature: 5 - 25 °C

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
1 - <5	2,2'-Iminodiethylamine
	CAS: 111-40-0, EINECS/ELINCS: 203-865-4, EU-INDEX: 612-058-00-x
	Long-term exposure: 1 ppm, 4,3 mg/m ³ , Sk
1 - <3	Phenol
	CAS: 108-95-2, EINECS/ELINCS: 203-632-7, EU-INDEX: 604-001-00-2
	Long-term exposure: 2 ppm, 7,8 mg/m ³ , Sk
	Short-term exposure (15-minute): 4 ppm, 16 mg/m ³
	Formaldehyde
	CAS: 50-00-0, EINECS/ELINCS: 200-001-8, EU-INDEX: 605-001-00-5
	Long-term exposure: 2 ppm, 2,5 mg/m ³
	Short-term exposure (15-minute): 2 ppm, 2,5 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Range [%]	Substance / EC LIMIT VALUES
1 - <3	Phenol
	CAS: 108-95-2, EINECS/ELINCS: 203-632-7, EU-INDEX: 604-001-00-2
	Eight hours: 2 ppm, 8 mg/m ³ , H
	Short-term (15-minute): 4 ppm, 16 mg/m ³

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Tightly fitting goggles.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Nitrile rubber, >480 min (EN 374).
Skin protection	Protective clothing.
Other	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Respiratory protection	If ventilation insufficient, wear respiratory protection. Short term: filter apparatus, combination filter A-P2.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	pasty
Color	red
Odor	amine-like
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability [°C]	not determined
Lower explosion limit	1,0 Vol.-%
Upper explosion limit	13 Vol.-%
Oxidizing properties	not determined
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,07
Bulk density [kg/m ³]	not applicable
Solubility in water	partially miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not determined
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.
Reactions with strong acids.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
10 - <40	3-Aminomethyl-3,5,5-trimethylcyclohexylamine, CAS: 2855-13-2 LD50, oral, Rat: 1030 mg/kg bw (IUCLID).
1 - <10	Benzyl alcohol, CAS: 100-51-6 LD50, dermal, Rabbit: 2000 mg/kg bw (RTECS). LD50, oral, Rat: 1230 mg/kg bw (IUCLID). LC50, inhalative, Rat: 4,178 mg/l/4h (OECD TG 403). LC50, inhalative, Rat: 8,8 mg/l (4h) (IUCLID).
1 - <5	2,2'-Iminodiethylamine, CAS: 111-40-0 LD50, dermal, Rabbit: 672 mg/kg bw (Lit.). LD50, oral, Rat: 1540 mg/kg bw (Lit.).
1 - <10	m-Phenylenebis(methylamine), CAS: 1477-55-0 LD50, dermal, Rabbit: ~ 2000 mg/kg (IUCLID). LD50, oral, Rat: 930 mg/kg (IUCLID). LC50, inhalative, Rat: 2,4-mg/l/4h (Lit.). LC50, inhalative, Rat: ~ 700 ppm 1h (IUCLID).
1 - <3	Phenol, CAS: 108-95-2 LD50, dermal, Rat: 660 mg/kg (OECD 402). LD50, oral, Rat: 317 mg/kg (RTECS). LC50, inhalative, Rat: 0,316 mg/l (RTECS).

Serious eye damage/irritation	Product is caustic.
Skin corrosion/irritation	Product is caustic.
Respiratory or skin sensitisation	Sensitizing.
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

The product was classified on the basis of the calculation procedure of the preparation directive.
 The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
10 - <40	3-Aminomethyl-3,5,5-trimethylcyclohexylamine, CAS: 2855-13-2
	LC50, (96h), <i>Leuciscus idus</i> : 110 mg/L (IUCLID).
	EC50, (72h), <i>Scenedesmus subspicatus</i> : 37 mg/L (IUCLID).
	EC50, (24h), <i>Leuciscus idus</i> : 42 mg/L (IUCLID).
1 - <10	Benzyl alcohol, CAS: 100-51-6
	LC50, (96h), <i>Lepomis macrochirus</i> : 10 mg/l (IUCLID).
	EC50, Bacteria: 71,4 mg/l (0,5 h) (IUCLID).
	EC50, (24h), <i>Daphnia magna</i> : 400 mg/l (IUCLID).
1 - <5	2,2'-Iminodiethylamine, CAS: 111-40-0
	LC50, (96h), <i>Leuciscus idus</i> : 430 mg/L (IUCLID).
	EC50, (48h), <i>Daphnia magna</i> : 53,5 mg/l (IUCLID).
	IC50, (72h), <i>Pseudokirchneriella subcapitata</i> : 1164 mg/l (IUCLID).
1 - <10	m-Phenylenebis(methylamine), CAS: 1477-55-0
	LC50, fish: 130 mg/l (Lit.).
	EC10, Bacteria: 90 mg/l (Lit.).
1 - <3	Phenol, CAS: 108-95-2
	LC50, (96h), <i>Oncorhynchus mykiss</i> : 5 mg/l (Lit.).
	EC50, (48h), <i>Daphnia magna</i> : 4,2 mg/l (Lit.).
	IC50, (96h), Algae: 150 mg/l (Lit.).

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

The product was classified on the basis of the calculation procedure of the preparation directive.
 Ecological data of complete product are not available.
 The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
 Do not discharge product unmonitored into the environment.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended)

080409*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Dispose full / partially emptied cartridges as hazardous waste in accordance with official regulations.

Waste no. (recommended)

150110*

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID

UN 3259 Amines, solid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, m-phenylenebis(methylamine)) 8 III

- Classification Code

C8

- Label



- ADR LQ

5 kg

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN)

UN 3259 Amines, solid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, m-phenylenebis(methylamine)) 8 III

- Classification Code

C8

- Label



Marine transport in accordance with IMDG

UN 3259 Amines, solid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, m-phenylenebis(methylamine)) 8 III

- EMS

F-A, S-B

- Label



- IMDG LQ

5 kg

Air transport in accordance with IATA

UN 3259 Amines, solid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, m-phenylenebis(methylamine)) III

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

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14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	yes
- VOC (1999/13/CE)	3 % 32 g/l

15.2 Chemical safety assessment

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

SECTION 16: Other information

16.1 R-phrases (SECTION 3)

R 34: Causes burns.
R 43: May cause sensitisation by skin contact.
R 20/22: Harmful by inhalation and if swallowed.
R 35: Causes severe burns.
R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 21/22: Harmful in contact with skin and if swallowed.
R 23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
R 48/20/21/22: Harmful - danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R 68: Possible risk of irreversible effects.

16.2 Hazard statements (SECTION 3)

H373 May cause damage to organs through prolonged or repeated exposure.
H311 Toxic in contact with skin.
H301 Toxic if swallowed.
H341 Suspected of causing genetic defects.
H302+H312 Harmful if swallowed or in contact with skin.
H302+H332 Harmful if swallowed or if inhaled.
H331 Toxic if inhaled.
H412 Harmful to aquatic life with long lasting effects.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H314 Causes severe skin burns and eye damage.

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16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.4 Other information**Classification procedure**

Acute Tox. 4: H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. ()
 Skin Corr. 1B: H314 Causes severe skin burns and eye damage. ()
 Skin Sens. 1: H317 May cause an allergic skin reaction. ()
 Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. ()
 Muta. 2: H341 Suspected of causing genetic defects. ()

Modified position

none

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