

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ITH-EPOXe pure epoxy (ITH 585 EPOXe (72946)), Comp.A**

Revision date: 10.01.2017

Product code: SDB0007

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

**1.1. Product identifier**

ITH-EPOXe pure epoxy (ITH 585 EPOXe (72946)), Comp.A

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

**Use of the substance/mixture**

Adhesive mortar for fastening elements A-component (resin)

**Uses advised against**

no restriction

**1.3. Details of the supplier of the safety data sheet**

Company name:	SORMAT Oy	
Street:	Harjutie 5	
Place:	FIN-21290 Rusko	
Telephone:	+358 207 940 200	Telefax: +358 201 76 3888
e-mail:	sormat@sormat.com	
Internet:	www.sormat.com	
Responsible Department:	Technical information : sormat@sormat.com	

**1.4. Emergency telephone number:**

Poison Information Center and Clinical Toxicology, Mainz Tel.: +49 (0) 6131 19240 (in English 24h)

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Regulation (EC) No. 1272/2008**

Hazard categories:  
 Skin corrosion/irritation: Skin Irrit. 2  
 Serious eye damage/eye irritation: Eye Irrit. 2  
 Respiratory or skin sensitisation: Skin Sens. 1  
 Hazardous to the aquatic environment: Aquatic Chronic 2  
 Hazard Statements:  
 Causes serious eye irritation.  
 Causes skin irritation.  
 May cause an allergic skin reaction.  
 Toxic to aquatic life with long lasting effects.

**2.2. Label elements**

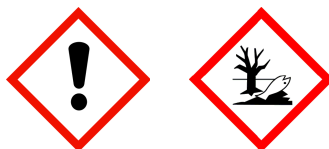
**Regulation (EC) No. 1272/2008**

**Hazard components for labelling**

epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)  
 Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight =< 700)  
 1,6-Bis(2,3-epoxypropoxy)hexane

**Signal word:** Warning

**Pictograms:**



**Hazard statements**

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

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**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/protective clothing/eye protection/face protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

**Special labelling of certain mixtures**

- EUH205 Contains epoxy constituents. May produce an allergic reaction.

**2.3. Other hazards**

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

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Hazardous components**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	25-50 %
	500-033-5	603-074-00-8
	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H319 H315 H317 H411	
9003-36-5	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight =< 700)	10-20 %
	500-006-8	01-2119454392-40
	Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H317 H411	
16096-31-4	1,6-Bis(2,3-epoxypropoxy)hexane	10-20 %
	240-260-4	01-2119463471-41
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H315 H319 H317 H412	
	Alkyl Ester (Ref.: 722 43/00/2012.0028, Germany)	1-10 %
	Eye Irrit. 2; H319	
14808-60-7	Quartz (< 10µm) *	1-5 %
	238-878-4	
	STOT RE 1; H372	

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

**Further Information**

This mixture includes a fine fraction of crystalline quartz. However, alveolar permeability can be ruled out as the quartz is irreversibly bound into the paste-like component and therefore not freely available. Subsequent drilling, grinding or other treatment can also not result in the free availability of this alveolar permeable quartz. Pursuant to Article 6 of CLP Regulation 1272/2008/EU classification and labelling as SLOT RE 2 is not required.

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SVHC Liste (Candidate List of Substances of Very High Concern for authorisation): substances are not contained or are below 0,1%.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Take off immediately all contaminated clothing and wash it before reuse.

**After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

**After contact with skin**

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

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water.

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

Allergic reactions

**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**

Extinguishing powder  
Water spray jet  
Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

Full water jet  
Foam.

**5.2. Special hazards arising from the substance or mixture**

Pyrolysis products, toxic  
Carbon monoxide.

**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.  
Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information**

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

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

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

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up**

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

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**6.4. Reference to other sections**

Safe handling: see section 7  
 Personal protection equipment: see section 8  
 Disposal: see section 13

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Use only outdoors or in a well-ventilated area.  
 When using do not eat, drink or smoke.  
 Wash hands before breaks and after work.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep container tightly closed.  
 Keep only in the original container in a cool, well-ventilated place.

**Advice on storage compatibility**

Do not use for products which come into contact with the food stuffs.

**Further information on storage conditions**

storage temperature : 5-35°C

**7.3. Specific end use(s)**

Adhesive mortar for fastening elements A-component (resin)

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**8.2. Exposure controls**



**Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.  
 Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Wearing time with occasional contact (splashes): 0,7mm NBR (Nitrile rubber) >480min (EN374)

Wearing time with permanent contact 0,7mm NBR (Nitrile rubber) >480min (EN374)

**Skin protection**

Wear suitable protective clothing.

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**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state:	Paste	
Colour:	light beige	
		<b>Test method</b>
pH-Value:		not determined
<b>Changes in the physical state</b>		
Melting point:		not determined
Initial boiling point and boiling range:		not determined
Flash point:		not applicable
<b>Flammability</b>		
Solid:		not determined
Gas:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
<b>Auto-ignition temperature</b>		
Solid:		not determined
Gas:		not applicable
Decomposition temperature:		not determined
<b>Oxidizing properties</b>		
Not oxidizing.		
Vapour pressure:		not determined
Density (at 20 °C):		1,49 g/cm <sup>3</sup>
Water solubility:		insoluble
<b>Solubility in other solvents</b>		
not determined		
Partition coefficient:		not determined
Vapour density:		not determined
Evaporation rate:		not determined

**9.2. Other information**

Solid content:	not determined
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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

- Violent reaction with: Oxidising agent
- Violent reaction with: Alkali (Iye) , Etchant and acids

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**10.4. Conditions to avoid**

none

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)			
	oral	LD50 11400 mg/kg	Rat	
9003-36-5	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight =< 700)			
	oral	LD50 > 2000 mg/kg	Rat	
	dermal	LD50 > 2000 mg/kg	Rabbit	
16096-31-4	1,6-Bis(2,3-epoxypropoxy)hexane			
	oral	LD50 2900 mg/kg	Rat	
	dermal	LD50 > 2000 mg/kg	Rat	
	Alkyl Ester (Ref.: 722 43/00/2012.0028, Germany)			
	oral	LD50 20700 mg/kg	Mouse	
	dermal	LD50 2000 mg/kg	Rabbit	

**Additional information on tests**

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

**Further information**

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**

The product is not: Ecotoxic.

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
9003-36-5	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight =< 700)				
	Acute fish toxicity	LC50 1,9 mg/l	96 h	Brachydanio rerio (zebra-fish)	OECD 203
16096-31-4	1,6-Bis(2,3-epoxypropoxy)hexane				
	Acute fish toxicity	LC50 30 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	OECD 203

**12.2. Persistence and degradability**

The product has not been tested.

**12.3. Bioaccumulative potential**

The product has not been tested.

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**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The product has not been tested.

**12.6. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

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

**Waste disposal number of waste from residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances  
Classified as hazardous waste.

**Waste disposal number of used product**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances  
Classified as hazardous waste.

**Waste disposal number of contaminated packaging**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances  
Classified as hazardous waste.

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number:**

UN 3077

**14.2. UN proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Bisphenol A/F Epoxy resin )

**14.3. Transport hazard class(es):**

9

**14.4. Packing group:**

III

Hazard label:

9



Classification code:

M7

Special Provisions:

274 335 375 601

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Limited quantity: 5 kg  
 Excepted quantity: E1  
 Transport category: 3  
 Hazard No: 90  
 Tunnel restriction code: E

**Other applicable information (land transport)**

No dangerous goods in packaging until 5kg according special instruction 375 ADR/RID

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bisphenol A/F Epoxy resin )  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Classification code: M7  
 Special Provisions: 274 335 375 601  
 Limited quantity: 5 kg  
 Excepted quantity: E1

**Other applicable information (inland waterways transport)**

No dangerous goods in packaging until 5kg according special instruction 375 ADN

**Marine transport (IMDG)**

**14.1. UN number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bisphenol A/F Epoxy resin )  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Special Provisions: 274, 335, 966, 967, 969  
 Limited quantity: 5 kg  
 Excepted quantity: E1  
 EmS: F-A, S-F

**Other applicable information (marine transport)**

No dangerous goods in packaging until 5kg according 2.10.2.7 IMDG Code

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bisphenol A/F Epoxy resin )  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



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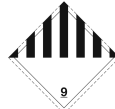
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Special Provisions:	A97 A158 A179 A197
Limited quantity Passenger:	30 kg G
Passenger LQ:	Y956
Excepted quantity:	E1
IATA-packing instructions - Passenger:	956
IATA-max. quantity - Passenger:	400 kg
IATA-packing instructions - Cargo:	956
IATA-max. quantity - Cargo:	400 kg

**Other applicable information (air transport)**

No dangerous goods in packaging until 5kg according A197 IATA-DGA

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

No information available.

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

not applicable

**SECTION 15: Regulatory information**

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

**EU regulatory information**

2004/42/EC (VOC): 0,9 Gew. % (DIN EN ISO 11890-2)

**Additional information**

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).  
 Water contaminating class (D): 2 - water contaminating

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 5,14,15.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%

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**Relevant H and EUH statements (number and full text)**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

**Further Information**

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

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

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

ITH-EPOXe pure epoxy (ITH 585 EPOXe (72946)), Comp. B

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

compound mortar B-component (hardener)

**Uses advised against**

no restriction

**1.3. Details of the supplier of the safety data sheet**

Company name:	SORMAT Oy	
Street:	Harjutie 5	
Place:	FIN-21290 Rusko	
Telephone:	+358 207 940 200	Telefax: +358 201 76 3888
e-mail:	sormat@sormat.com	
Internet:	www.sormat.com	
Responsible Department:	Technical information : sormat@sormat.com	

**1.4. Emergency telephone number:**

Poison Information Center and Clinical Toxicology, Mainz Tel.: +49 (0) 6131 19240 (in English 24h)

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

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Respiratory or skin sensitisation: Skin Sens. 1

Germ cell mutagenicity: Muta. 2

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

Harmful to aquatic life with long lasting effects.

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

Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)

3-aminomethyl-3,5,5-trimethylcyclohexylamine

m-Phenylenebis(methylamine)

Formaldehyde, oligomeric reaction products with 4,4'-isopropylidenediphenol and diethylenetriamine

phenol

2,2'-iminodiethylamine, diethylenetriamine

bisphenol A; 4,4'-isopropylidenediphenol

**Signal word:** Danger

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**Pictograms:**



**Hazard statements**

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H341 Suspected of causing genetic defects.
- H412 Harmful 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.
- P201 Obtain special instructions before use.
- 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.
- P310 Immediately call a POISON CENTER/doctor.
- P405 Store locked up.
- P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

**2.3. Other hazards**

This substance meets the PBT criteria of REACH, annex XIII.  
Contains Amines. May produce an allergic reaction.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

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**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			30 - < 35 %
	220-666-8	612-067-00-9		
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H317 H412			
57214-10-5	Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)			20 - < 25 %
	500-137-0			
	Skin Corr. 1C, Skin Sens. 1B, Aquatic Chronic 3; H314 H317 H412			
77138-45-5	Formaldehyde, oligomeric reaction products with 4,4'-isopropylidenediphenol and diethylenetriamine			20 - < 25 %
	500-263-6			
	Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1; H314 H318 H317			
1477-55-0	m-Phenylenebis(methylamine)			15 - < 20 %
	216-032-5		01-2119480150-50	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H302 H332 H314 H317 H412			
100-51-6	benzyl alcohol			5 - < 10 %
	202-859-9	603-057-00-5		
	Acute Tox. 4, Acute Tox. 4; H332 H302			
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol			5 - < 10 %
	202-013-9	603-069-00-0		
	Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2; H302 H319 H315			
111-40-0	2,2'-iminodiethylamine, diethylenetriamine			5 - < 10 %
	203-865-4	612-058-00-X		
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1; H312 H302 H314 H317			
108-95-2	phenol			1 - < 5 %
	203-632-7	604-001-00-2		
	Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Skin Corr. 1B; H341 H331 H311 H301 H373 ** H314			
80-05-7	bisphenol A; 4,4'-isopropylidenediphenol			1 - < 5 %
	201-245-8	604-030-00-0		
	Repr. 2, STOT SE 3, Eye Dam. 1, Skin Sens. 1; H361f *** H335 H318 H317			
71074-89-0	Bis[(dimethylamino)methyl]phenol			1 - < 5 %
	275-162-0			
	Skin Corr. 1B; H314			

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

**Further Information**

REACH Art. 59, SVHC list (Candidate list of Substances of Very High Concern for authorisation) : Bisphenol A; 4,4'-Isopropylidenediphenol

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

according to Regulation (EC) No 1907/2006

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**General information**

Change contaminated, saturated clothing.

**After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

**After contact with skin**

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

**After contact with eyes**

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

**After ingestion**

Rinse mouth immediately and drink plenty of water.

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

Allergic reactions

**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**

Co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing powder

Water spray jet

**Unsuitable extinguishing media**

Full water jet

Foam.

**5.2. Special hazards arising from the substance or mixture**

Pyrolysis products, toxic

Carbon monoxide.

**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.

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

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation.

Use personal protection equipment.

Special danger of slipping by leaking/spilling product.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**6.3. Methods and material for containment and cleaning up**

Take up mechanically.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

Safe handling: see section 7

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Personal protection equipment: see section 8  
 Disposal: see section 13

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Use only outdoors or in a well-ventilated area.  
 When using do not eat, drink or smoke.  
 Use protective skin cream before handling the product.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep container tightly closed.  
 Keep/Store only in original container.

**Advice on storage compatibility**

Do not use for products which come into contact with the food stuffs.  
 Store in a well-ventilated place. Keep cool.

**Further information on storage conditions**

Keep container tightly closed in a cool place.  
 storage temperature 5-35°C

**7.3. Specific end use(s)**

see section 1.2

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
111-40-0	2,2'-Iminodi(ethylamine)	1	4.3		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
80-05-7	Bisphenol A, inhalable dust	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
108-95-2	Phenol	2	7.8		TWA (8 h)	WEL
		4	16		STEL (15 min)	WEL

**8.2. Exposure controls**



**Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.  
 Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**Eye/face protection**

Suitable eye protection: Wear eye/face protection.

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**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Wearing time with occasional contact (splashes): 0,7mm NBR (Nitrile rubber) >480min (EN374)

Wearing time with permanent contact 0,7mm NBR (Nitrile rubber) >480min (EN374)

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state:	Paste
Colour:	black / red
Odour:	characteristic

**Test method**

pH-Value: not applicable

**Changes in the physical state**

Melting point: not determined

Initial boiling point and boiling range: not determined

Flash point: not applicable

**Flammability**

Solid: not determined

Gas: not applicable

Lower explosion limits: not determined

Upper explosion limits: not determined

**Auto-ignition temperature**

Solid: not determined

Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties**

Not oxidizing.

Vapour pressure: not determined

Density (at 20 °C): 1,07 g/cm<sup>3</sup>

Water solubility: insoluble

**Solubility in other solvents**

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

**9.2. Other information**



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Solid content:

not determined

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

see section 10.3

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Violent reaction with: Oxidising agent

**10.4. Conditions to avoid**

see section 7.2

**10.5. Incompatible materials**

Oxidising agent, strong

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****ATEmix calculated**

ATE (oral) 813,1 mg/kg; ATE (dermal) 1216,6 mg/kg; ATE (inhalative vapour) 5,53 mg/l; ATE (inhalative aerosol) 2,191 mg/l

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**Acute toxicity**

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			
	oral	LD50 1030 mg/kg	Rat	
	dermal	ATE 1100 mg/kg		
1477-55-0	m-Phenylenebis(methylamine)			
	oral	LD50 930 mg/kg	Rat	
	dermal	LD50 2000 mg/kg	Rabbit	
	inhalative (1 h) vapour	LC50 3,89 mg/l	Rat	
	inhalative aerosol	ATE 1,5 mg/l		
100-51-6	benzyl alcohol			
	oral	LD50 1230 mg/kg	Rat	GESTIS
	dermal	LD50 2000 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50 > 4,178 mg/l	Rat	
	inhalative aerosol	ATE 1,5 mg/l		
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol			
	oral	LD50 2169 mg/kg	Rat	
	dermal	LD50 > 808 mg/kg	Rat	
111-40-0	2,2'-iminodiethylamine, diethylenetriamine			
	oral	LD50 1080 mg/kg	Rat	
	dermal	LD50 1054 mg/kg	Rabbit	
108-95-2	phenol			
	oral	LD50 317 mg/kg	Rat	
	dermal	LD50 630 mg/kg	Rabbit	
	inhalative vapour	ATE 3 mg/l		
	inhalative aerosol	ATE 0,5 mg/l		
80-05-7	bisphenol A; 4,4'-isopropylidenediphenol			
	oral	LD50 3250 mg/kg	Rat	
	dermal	LD50 3000 mg/kg	Rabbit	

**Additional information on tests**

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

**Further information**

This mixture is placed on the market in a form, in which there can be no aerosol formation when used as intended. It may only be used for applications where aerosol formation is excluded. In accordance with Article 6 of the CLP Regulation 1272/2008/EU, therefore, the classification and labeling for inhalation toxicity is not required.

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**

The product is not: Ecotoxic.

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CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
111-40-0	2,2'-iminodiethylamine, diethylenetriamine				
	Acute fish toxicity	LC50 430 mg/l	96 h	Leuciscus idus	
	Acute algae toxicity	ErC50 1164 mg/l	72 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50 53,5 mg/l	48 h	Daphnia magna	
108-95-2	phenol				
	Acute algae toxicity	ErC50 229 mg/l	72 h		GESTIS
80-05-7	bisphenol A; 4,4'-isopropylidenediphenol				
	Acute fish toxicity	LC50 4,6 mg/l	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50 2,73 mg/l	96 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50 3,9 mg/l	48 h	Daphnia magna	

**12.2. Persistence and degradability**

The product has not been tested.

**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	1,9
100-51-6	benzyl alcohol	1,05
111-40-0	2,2'-iminodiethylamine, diethylenetriamine	-2,13
108-95-2	phenol	1,5
80-05-7	bisphenol A; 4,4'-isopropylidenediphenol	3,32

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The product has not been tested.

**12.6. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

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

**Waste disposal number of waste from residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances  
Classified as hazardous waste.

**Waste disposal number of used product**

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080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances  
Classified as hazardous waste.

**Waste disposal number of contaminated packaging**

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

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number:** UN 3259  
**14.2. UN proper shipping name:** AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine) )  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Classification code: C8  
 Special Provisions: 274  
 Limited quantity: 1 kg  
 Excepted quantity: E2  
 Transport category: 3  
 Hazard No: 80  
 Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 3259  
**14.2. UN proper shipping name:** AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine) )  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Classification code: C8  
 Special Provisions: 274  
 Limited quantity: 1 kg  
 Excepted quantity: E2

**Marine transport (IMDG)**

**14.1. UN number:** UN 3259  
**14.2. UN proper shipping name:** AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine) )  
**14.3. Transport hazard class(es):** 8

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**14.4. Packing group:**

II

Hazard label:

8



Special Provisions:

223, 274

Limited quantity:

1 kg

Excepted quantity:

E2

EmS:

F-A, S-B

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:**

UN 3259

**14.2. UN proper shipping name:**

AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine) )

**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

II

Hazard label:

8



Special Provisions:

A3 A803

Limited quantity Passenger:

5 kg

Passenger LQ:

Y844

Excepted quantity:

E2

IATA-packing instructions - Passenger:

859

IATA-max. quantity - Passenger:

15 kg

IATA-packing instructions - Cargo:

863

IATA-max. quantity - Cargo:

50 kg

**14.6. Special precautions for user**

No information available.

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

not applicable

**SECTION 15: Regulatory information**

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

**EU regulatory information**

2004/42/EC (VOC):

28,7 Gew. % (DIN EN ISO 11890-2)

**Additional information**

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D):

2 - water contaminating

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information**

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**Changes**

This data sheet contains changes from the previous version in section(s): 3.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

**Relevant H and EUH statements (number and full text)**

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
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.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

**Further Information**

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

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