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Print date: 23.11.2017



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# MIT 600 RE, Comp. A

Revision date: 10.11.2017 Product code: SDB0007 Page 1 of 12

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

### 1.1. Product identifier

MIT 600 RE, 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: Mungo Befestigungstechnik AG

Street: Bornfeldstraße 2
Place: CH-4600 Olten
Telephone: +41 62 2067575

e-mail: mungo@mungo.swiss Internet: www.mungo.swiss

**1.4. Emergency telephone** Schweiz: 145

number: Int.: +41 44 251 51 51 (Schweizerisches Toxikologisches Informationszentrum -

24 h)

### **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

Specific target organ toxicity - repeated exposure: STOT RE 2 Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes serious eve 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

GB - EN

Signal word: Warning

**Pictograms:** 





### **Hazard statements**

H319 Causes serious eye irritation. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.



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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/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					
	EC No	Index No	REACH No			
	Classification according to Re	gulation (EC) No. 1272	2/2008 [CLP]			
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)					
	500-033-5	603-074-00-8				
	Eye Irrit. 2, Skin Irrit. 2, Skin S	Sens. 1, Aquatic Chroni	c 2; H319 H315 H317 H411			
14808-60-7	RCS (Respirable crystalline Silica - SiO2)					
9003-36-5	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight =< 700)					
	500-006-8		01-2119454392-40			
	Skin Irrit. 2, Skin Sens. 1, Aqı	uatic Chronic 2; H315 H	317 H411			
16096-31-4	1,6-Bis(2,3-epoxypropoxy)hexane					
	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)					
	Eye Irrit. 2; H319					

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

## **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.



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#### 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

Foam.

Extinguishing powder

Water spray jet

Carbon dioxide (CO2).

### 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.

### 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**



# **Safety Data Sheet**

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### 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



according to Regulation (EC) No 1907/2006

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# **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
25068-38-6	epoxy resin (number average molecular we	ight <= 700), reaction produ	ct: bisphenol-A-(e	pichlorhydrin)
Worker DNEL	_, long-term	dermal	systemic	8,33 mg/kg bw/day
Worker DNEL	_, long-term	inhalation	systemic	12,25 mg/m <sup>3</sup>
Worker DNEL	_, acute	inhalation	systemic	12,25 mg/m <sup>3</sup>
Worker DNEL	-, acute	dermal	systemic	8,33 mg/kg bw/day
Consumer DN	NEL, acute	oral	systemic	0,75 mg/kg bw/day
Consumer DN	NEL, long-term	oral	systemic	0,75 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	3,571 mg/kg bw/day
Consumer DN	NEL, acute	dermal	systemic	3,571 mg/kg bw/day
9003-36-5	Reaction product: bisphenol-F-(epichlorhyd	rin) Epoxy resin (number av	erage molecular v	veight =< 700)
Worker DNEL	_, acute	dermal	local	8,3 mg/cm <sup>2</sup>
Worker DNEL	., long-term	dermal	systemic	104,15 mg/kg bw/day
Worker DNEL	_, long-term	inhalation	systemic	29,39 mg/m <sup>3</sup>
Consumer DN	NEL, long-term	dermal	systemic	62,5 mg/kg bw/day
Consumer DN	NEL, long-term	inhalation	systemic	8,7 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	6,25 mg/kg bw/day
16096-31-4	1,6-Bis(2,3-epoxypropoxy)hexane			
Worker DNEL	., long-term	dermal	systemic	2,8 mg/kg bw/day
Worker DNEL	_, long-term	inhalation	systemic	2,9 mg/m <sup>3</sup>



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#### **PNEC values**

CAS No	Substance	
Environment	al compartment	Value
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epic	chlorhydrin)
Freshwater		0,006 mg/l
Marine water		0,006 mg/l
Freshwater s	ediment	0,996 mg/l
Marine sediment 0,996 n		0,996 mg/l
Micro-organia	sms in sewage treatment plants (STP)	10 mg/l
9003-36-5	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular wei	ght =< 700)
Freshwater		0,003 mg/l
Marine water 0,0003		0,0003 mg/l
Freshwater s	ediment	0,294 mg/kg
Marine sedin	ent	0,0294 mg/kg
Secondary p	pisoning	0,0254 mg/l
Micro-organia	sms in sewage treatment plants (STP)	10 mg/l
Soil		0,237 mg/kg
16096-31-4	1,6-Bis(2,3-epoxypropoxy)hexane	
Freshwater		0,0115 mg/l

### 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.

# Respiratory protection

In case of inadequate ventilation wear respiratory protection.



according to Regulation (EC) No 1907/2006

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### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical state: Paste Colour: light beige

pH-Value: not determined

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Flash point:

not determined

not determined

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): 1,49 g/cm³

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

Solid content: not determined

### **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

### 10.4. Conditions to avoid

none

### 10.5. Incompatible materials

No information available.



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### 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	Method			
25068-38-6	epoxy resin (number a	verage mole	cular weig	ht <= 700), reaction pro	oduct: bisphenol-A-(epid	chlorhydrin)			
	oral	LD50 mg/kg	11400	Rat					
14808-60-7	RCS (Respirable crysta	alline Silica -	SiO2)						
	oral	LD50 mg/kg	5000	Rat					
9003-36-5 Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight =				ght =< 700)					
	oral	LD50 mg/kg	>2000	Rat					
	dermal	LD50 mg/kg	>2000	Rat					
16096-31-4	1,6-Bis(2,3-epoxypropo	oxy)hexane							
	oral	LD50 mg/kg	2900	Rat					
	dermal	LD50 mg/kg	> 2000	Rat					
	Alkyl Ester (Ref.: 722 4	Alkyl Ester (Ref.: 722 43/00/2012.0028, Germany)							
	oral	LD50 mg/kg	20700	Mouse					
	dermal	LD50 mg/kg	2000	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.



according to Regulation (EC) No 1907/2006

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CAS No	Chemical name								
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method		
25068-38-6	epoxy resin (number av	erage mole	cular weig	ht <= 70	00), reaction product: bi	sphenol-A-(epichlor	hydrin)		
	Acute fish toxicity	LC50	1,3 mg/l		Oncorhynchus mykiss (Rainbow trout)				
	Acute crustacea toxicity	EC50	2,1 mg/l		Daphnia magna (Big water flea)				
	Crustacea toxicity	NOEC	0,3 mg/l		Daphnia magna (Big water flea)				
9003-36-5	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight =< 700)								
	Acute fish toxicity	LC50 mg/l	2,54		Carassius auratus (goldfish)				
	Acute crustacea toxicity	EC50 mg/l	2,55		Daphnia pulex (water flea)				
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.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	2,64-3,78

### 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;

hazardous waste

### Waste disposal number of used product



according to Regulation (EC) No 1907/2006

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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;

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;

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.

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9



Classification code: M7

Special Provisions: 274 335 601

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

Inland waterways transport (ADN)

**14.1. UN number:** UN 3077

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9



Classification code: M7

Special Provisions: 274 335 601

Limited quantity: 5 kg
Excepted quantity: E1

Marine transport (IMDG)

**14.1. UN number:** UN 3077

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3. Transport hazard class(es): 9



according to Regulation (EC) No 1907/2006

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14.4. Packing group:
Hazard label:
9

Special Provisions: 274, 335, 966, 967

Limited quantity: 5 kg
Excepted quantity: E1
EmS: F-A, S-F

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.

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9



Special Provisions: A97 A158 A179

Limited quantity Passenger: 30 kg G Passenger LQ: Y956 Excepted quantity: E1

IATA-packing instructions - Passenger:956IATA-max. quantity - Passenger:400 kgIATA-packing instructions - Cargo:956IATA-max. quantity - Cargo:400 kg

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): 13,41 g/l

**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 - clearly water contaminating

15.2. Chemical safety assessment

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

### **SECTION 16: Other information**



according to Regulation (EC) No 1907/2006

# MIT 600 RE, Comp. A

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### Changes

This data sheet contains changes from the previous version in section(s): 3,15,16.

### 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)

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level DNEL: Derived No Effect Level EC50: Effective concentration, 50%

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

NOEC: No Observed Effect Concentration

OECD: Oragnisation for Economic Co-operation and Development

PBT: persistent, bioaccumulative and toxic vPvB: very persistent and very bioaccumulative PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations

Concerning the International Carriage of Dangerous Goods by Rail)

VOC: Volatile organic compound

#### 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.

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.)

Telefax:+41 62 2067585

Print date: 23.11.2017



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

MIT 600 RE, Comp. B

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

### 1.1. Product identifier

MIT 600 RE, 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: Mungo Befestigungstechnik AG

Street: Bornfeldstraße 2
Place: CH-4600 Olten
Telephone: +41 62 2067575

e-mail: mungo@mungo.swiss Internet: www.mungo.swiss

**1.4. Emergency telephone** Schweiz: 145

number: Int.: +41 44 251 51 51 (Schweizerisches Toxikologisches Informationszentrum -

24 h)

### **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

2,2'-iminodiethylamine, diethylenetriamine bisphenol A; 4,4'-isopropylidenediphenol

Signal word: Danger



according to Regulation (EC) No 1907/2006

# MIT 600 RE, Comp. B

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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

or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

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



according to Regulation (EC) No 1907/2006

# MIT 600 RE, Comp. B

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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, Ac H317 H412	quatic Chronic 3; H312 H302 H314				
57214-10-5	Formaldehyde, oligomeric reaction products with phenol a	nd m-phenylenebis(methylamine)	20 - < 25 %			
	500-137-0					
	Skin Corr. 1C, Skin Sens. 1B, Aquatic Chronic 3; H314 H3	317 H412				
77138-45-5	Formaldehyde, oligomeric reaction products with 4,4'-isop diethylenetriamine	ropylidenediphenol and	20 - < 25 %			
	500-263-6					
	Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1; H314 H318 H31	7				
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, Ac H317 H412	quatic Chronic 3; H332 H302 H314				
100-51-6	benzyl alcohol					
	202-859-9 603-057-00-5					
	Acute Tox. 4, Acute Tox. 4; H332 H302					
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol					
	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					
	203-865-4 612-058-00-X					
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1; H3	312 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 RI H301 H373 ** H314	E 2, Skin Corr. 1B; H341 H331 H311				
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'-lsopropylidendiphenol

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures



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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/m³	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

pH-Value: not applicable

Changes in the physical state

Melting point:
Initial boiling point and boiling range:
Initial boiling point and boiling range:
Inot determined
Inot 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/cm³

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

Solid content: not determined



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# **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	Method			
2855-13-2	3-aminomethyl-3,5,5-tr	imethylcyd	clohexylamir	ne					
	oral	LD50 mg/kg	1030	Rat					
	dermal	ATE mg/kg	1100						
1477-55-0	m-Phenylenebis(methy	rlamine)							
	oral	LD50 mg/kg	930	Rat					
	dermal	LD50 mg/kg	2000	Rabbit					
	inhalative (1 h) vapour			Rat					
	inhalative aerosol	ATE	1,5 mg/l						
100-51-6	benzyl alcohol								
	oral	LD50 mg/kg	1230	Rat	GESTIS				
	inhalative vapour	ATE	11 mg/l						
	inhalative aerosol	ATE	1,5 mg/l						
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol								
	oral	ATE mg/kg	500						
111-40-0	2,2'-iminodiethylamine, diethylenetriamine								
	oral	LD50 mg/kg	1540	Rat					
	dermal	LD50 mg/kg	672	Rabbit					
108-95-2	phenol								
	oral	ATE mg/kg	100						
	dermal	ATE mg/kg	300						
	inhalative vapour	ATE	3 mg/l						
	inhalative aerosol	ATE	0,5 mg/l						
80-05-7	bisphenol A; 4,4'-isopro	pylidened	liphenol						
	oral	LD50 mg/kg	3250	Rat					
	dermal	LD50 mg/kg	3000	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 Regilation 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.



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## **SECTION 12: Ecological information**

### 12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
111-40-0	2,2'-iminodiethylamine,	diethylenet	riamine				
	Acute fish toxicity	LC50	430 mg/l	96 h	Leuciscus idus		
	Acute algae toxicity	ErC50 mg/l	1164		Selenastrum capricornutum		
	Acute crustacea toxicity	EC50 mg/l	53,5	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'-isoprop	oylidenedip	henol				
	Acute fish toxicity	LC50	4,6 mg/l	96 h	Pimephales promelas		
	Acute algae toxicity	ErC50 mg/l	2,73		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



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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;

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;

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; 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):814.4. Packing group:IIHazard 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):814.4. Packing group:IIHazard label:8



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



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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):814.4. Packing group:IIHazard label:8

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):814.4. Packing group:IIHazard label:8



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3 A803

5 kg

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

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

bisphenol A; 4,4'-isopropylidenediphenol

Restrictions on use (REACH, annex XVII):

Entry 66: bisphenol A; 4,4'-isopropylidenediphenol 2004/42/EC (VOC): 307,09 g/l

**Additional information** 

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



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### **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 - clearly 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): 3,16.

### 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)

ATE: Acute Toxicity Estimates CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

EC50: Effective concentration, 50%

ErC50: EC50 in terms of reduction of growth rate

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

PBT: persistent, bioaccumulative and toxic vPvB: very persistent and very bioaccumulative

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations

Concerning the International Carriage of Dangerous Goods by Rail)

VOC: Volatile organic compound

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

Toxic if swallowed

1 100 1	TOXIC II SWAIIOWCU.
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.

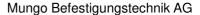
H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

#### **Further Information**

H301

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





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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.)