

**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. A**

Revision date: 12.10.2023

Page 1 of 12

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

ATA 2004C, Comp. A

UFI: 5J4W-10K2-H008-J9AF

**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: TOGE Dübel GmbH &amp; Co. KG

Street: Illesheimer Straße 10

Place: D-90431 Nürnberg

Telephone: +49 (0)911-65968-0

e-mail: info@toge.de

Internet: www.toge.de

**1.4. Emergency telephone number:**

+49 (0)551-19240 (GIZ-Nord, German and English 24/7)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Skin Irrit. 2; H315

Eye Irrit. 2; H319

Skin Sens. 1; H317

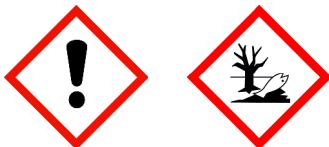
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane;

1,6-hexanediol diglycidyl ether

**Signal word:** Warning**Pictograms:****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**

P264

Wash hands thoroughly after handling.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. A**

Revision date: 12.10.2023

Page 2 of 12

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.

**2.3. Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. (--> UK REACH)

CAS No. 1675-54-3: inconclusive outcome (ECHA's endocrine disruptor (ED) assessment list)

People who are allergic to epoxide should avoid the use of the product.  
Use only outdoors or in a well-ventilated area.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
1675-54-3	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane			30 - < 60 %
	216-823-5	603-073-00-2	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411			
933999-84-9	1,6-hexanediol diglycidyl ether			10 - < 15 %
	618-939-5		01-2119463471-41	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H315 H319 H317 H412			

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

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
1675-54-3	216-823-5	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	30 - < 60 %
	dermal: LD50 = 23000 mg/kg; oral: LD50 = 15000 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100		
933999-84-9	618-939-5	1,6-hexanediol diglycidyl ether	10 - < 15 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 3010 mg/kg		

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

First aider: Pay attention to self-protection! Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

**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**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.



## Safety Data Sheet

according to UK REACH Regulation

### ATA 2004C, Comp. A

Revision date: 12.10.2023

Page 3 of 12

#### After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

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

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

#### **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 (CO<sub>2</sub>)

##### **Unsuitable extinguishing media**

Full water jet

#### **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. Full protection suit

#### **Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

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

##### **General advice**

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

#### **6.2. Environmental precautions**

Avoid release to the environment. Do not allow to enter into surface water or drains.

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

##### **For cleaning up**

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand

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

Retain contaminated washing water and dispose it.

#### **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**

**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. A**

Revision date: 12.10.2023

Page 4 of 12

**Advice on safe handling**

Use only outdoors or in a well-ventilated area.  
Wear personal protection equipment (refer to section 8).  
Avoid contact with skin, eyes and clothes.  
When using do not eat, drink or smoke.

**Advice on general occupational hygiene**

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme.  
Wash hands thoroughly after handling. When using do not eat, drink or smoke.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed.  
Store in a place accessible by authorized persons only.  
Keep only in the original container in a cool, well-ventilated place.

**Hints on joint storage**

Do not store together with: Oxidising agent, strong  
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****DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
933999-84-9	1,6-hexanediol diglycidyl ether			
Worker DNEL, long-term		inhalation	systemic	10,57 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	0,44 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	6,0 mg/kg bw/day
Worker DNEL, long-term		dermal	local	0,0226 mg/cm <sup>2</sup>
Consumer DNEL, long-term		inhalation	systemic	5,29 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	0,27 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	3,0 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	0,0136 mg/cm <sup>2</sup>
Consumer DNEL, acute		inhalation	systemic	5,29 mg/m <sup>3</sup>
Consumer DNEL, acute		dermal	systemic	1,7 mg/kg bw/day
Consumer DNEL, acute		dermal	local	0,0136 mg/cm <sup>2</sup>
Consumer DNEL, long-term		oral	systemic	1,5 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	1,5 mg/kg bw/day

## Safety Data Sheet

according to UK REACH Regulation

### ATA 2004C, Comp. A

Revision date: 12.10.2023

Page 5 of 12

#### PNEC values

CAS No	Substance	
	Environmental compartment	Value
933999-84-9	1,6-hexanediol diglycidyl ether	
	Freshwater	0,0115 mg/l
	Marine water	0,00115 mg/l
	Freshwater sediment	0,283 mg/kg
	Marine sediment	0,283 mg/kg

#### Additional advice on limit values

This mixture contains quartz (inorganic filler) which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded. Exposure limit values for respirable dusts are not relevant for this product.

#### 8.2. Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear eye/face protection. Wear safety glasses.

##### Hand protection

Recommended material: NBR (Nitrile rubber)

Breakthrough time: > 480 min

Thickness of the glove material: 0,7 mm

DIN-/EN-Norms EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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.

##### Skin protection

Wear suitable protective clothing.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection with combination filter A1P2 (organic gases/vapors and particles) recommended.

### SECTION 9: Physical and chemical properties

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

Physical state:	solid (pasty)	
Colour:	light beige	
Odour:	characteristic	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		No data available
Flammability:		Non-flammable.

**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. A**

Revision date: 12.10.2023

Page 6 of 12

Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Flash point:	not applicable
Auto-ignition temperature:	not applicable
Decomposition temperature:	No data available
pH-Value:	The study does not need to be conducted because the substance is known to be insoluble in water.
Viscosity / kinematic:	not applicable
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.
Solubility in other solvents	
No data available	
Partition coefficient n-octanol/water:	not applicable
Vapour pressure:	No data available
Density (at 20 °C):	1,45 g/cm <sup>3</sup>
Relative vapour density:	not applicable
Particle characteristics:	No data available

**9.2. Other information****Information with regard to physical hazard classes****Explosive properties**

The product is not: Explosive.

**Self-ignition temperature**

Solid:

not applicable

**Oxidizing properties**

Not oxidising.

**Other safety characteristics**

Evaporation rate:

No data available

Solid content:

No data available

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

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Violent reaction with: Oxidising agent, strong

**10.4. Conditions to avoid**

Heat. Keep cool. Protect from sunlight.

**10.5. Incompatible materials**

Keep away from: Oxidizing agent

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

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

**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. A**

Revision date: 12.10.2023

Page 7 of 12

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
1675-54-3	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane					
	oral	LD50 mg/kg	15000	Rat		
	dermal	LD50 mg/kg	23000	Rabbit		
933999-84-9	1,6-hexanediol diglycidyl ether					
	oral	LD50 mg/kg	3010	Rat		
	dermal	LD50 mg/kg	> 2000	Rat		OECD 402

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

**Sensitising effects**

May cause an allergic skin reaction. (2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; 1,6-hexanediol diglycidyl ether)

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**11.2. Information on other hazards****Endocrine disrupting properties**

CAS No. 1675-54-3: inconclusive outcome (ECHA's endocrine disruptor (ED) assessment list)

**SECTION 12: Ecological information****12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
1675-54-3	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane					
	Acute fish toxicity	LC50	2 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50	11 mg/l	72 h		
	Acute crustacea toxicity	EC50	1.8 mg/l	48 h	Daphnia magna (Big water flea)	
933999-84-9	1,6-hexanediol diglycidyl ether					
	Acute fish toxicity	LC50	30 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute crustacea toxicity	EC50	47 mg/l	48 h	Daphnia magna (Big water flea)	

**12.2. Persistence and degradability**

The product has not been tested.

**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. A**

Revision date: 12.10.2023

Page 8 of 12

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
933999-84-9	1,6-hexanediol diglycidyl ether			
	OECD 301D	71 %	28	

**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
933999-84-9	1,6-hexanediol diglycidyl ether	0,822

**BCF**

CAS No	Chemical name	BCF	Species	Source
933999-84-9	1,6-hexanediol diglycidyl ether	3,57		

**12.4. Mobility in soil**

The product has not been tested.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. 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****Disposal recommendations**

Subsequent waste code numbers of the European Waste Catalogue are considered as recommendations.

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

**List of Wastes Code - 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

**List of Wastes Code - 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

**List of Wastes Code - contaminated packaging**



**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. A**

Revision date: 12.10.2023

Page 9 of 12

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

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 3077

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

Transport category:

3

Hazard No:

90

Tunnel restriction code:

-

**Other applicable information (land transport)**

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

**Inland waterways transport (ADN)****14.1. UN number or ID number:**

UN 3077

**14.2. UN proper shipping name:**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(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 5 kg according special instruction 375 ADN

**Marine transport (IMDG)****14.1. UN number or ID number:**

UN 3077

**14.2. UN proper shipping name:**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Epoxy resin)**14.3. Transport hazard class(es):**

9

**14.4. Packing group:**

III

Hazard label:

9



**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. A**

Revision date: 12.10.2023

Page 10 of 12

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



Special Provisions: A97 A158 A179 A197 A215  
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 5 kg according A197 IATA-DGA

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes

**14.6. Special precautions for user**

No information available.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to 2012/18/EU E2 Hazardous to the Aquatic Environment  
(SEVESO III):**Additional information**

VOC content: &lt; 0,1 % (DIN EN ISO 11890-2)

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

**National regulatory information**

**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. A**

Revision date: 12.10.2023

Page 11 of 12

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Abbreviations and acronyms**

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation  
(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

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

BCF: Bioconcentration factor

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level

DNEL: Derived No Effect Level

EC50: Effective concentration, 50%

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

ICAO: International Civil Aviation Organization

IC50: Inhibitory concentration, 50%

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

NOEC: No Observed Effect Concentration

OECD: Organisation 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

Aquatic Chronic 2: Long-term aquatic hazard, Category 2

Aquatic Chronic 3: Long-term aquatic hazard, Category 3

Eye Irrit. 2: Serious eye damage/eye irritation, Category 2

Skin Irrit. 2: Serious eye damage/eye irritation, Category 2

Skin Sens. 1: Skin sensitization, Category 1

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

**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.

**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. A**

Revision date: 12.10.2023

Page 12 of 12

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.)*

**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. B**

Revision date: 12.10.2023

Page 1 of 13

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

ATA 2004C, Comp. B

UFI: GN4W-J08F-T00R-6MWH

**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: TOGE Dübel GmbH & Co. KG  
Street: Illesheimer Straße 10  
Place: D-90431 Nürnberg  
Telephone: +49 (0)911-65968-0  
e-mail: info@toge.de  
Internet: www.toge.de

**1.4. Emergency telephone number:**

+49 (0)551-19240 (GIZ-Nord, German and English 24/7)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Acute Tox. 4; H302  
Skin Corr. 1A; H314  
Eye Dam. 1; H318  
Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine;  
m-Phenylenebis(methylamine);  
2,4,6-Tris(dimethylaminomethyl)phenol

**Signal word:** Danger**Pictograms:****Hazard statements**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.

**Precautionary statements**

P260 Do not breathe dusts or mists.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. B**

Revision date: 12.10.2023

Page 2 of 13

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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

P501 Dispose of contents/container to an approved waste disposal plant in accordance with local/national regulation.

**2.3. Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. (--> UK REACH)

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Contains Amines. May produce an allergic reaction.  
Use only outdoors or in a well-ventilated area.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine			25 - < 35 %
	247-063-2		01-2119560598-25	
	Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, Skin Sens. 1A; H302 H314 H318 H317			
1477-55-0	m-Phenylenebis(methylamine)			1 - < 8 %
	216-032-5		01-2119480150-50	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1B, Aquatic Chronic 3; H332 H302 H314 H318 H317 H412			
90-72-2	2,4,6-Tris(dimethylaminomethyl)phenol			5 - < 10 %
	202-013-9	603-069-00-0	01-2119560597-27	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H315 H319			
104-15-4	p-Toluenesulphonic acid			1 - < 5 %
	203-180-0	016-030-00-2	01-2119538811-39	
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			

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

**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. B**

Revision date: 12.10.2023

Page 3 of 13

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
25513-64-8	247-063-2	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine	25 - < 35 %
		oral: ATE = 500 mg/kg	
1477-55-0	216-032-5	m-Phenylenebis(methylamine)	1 - < 8 %
		inhalation: LC50 = 3,89 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 2000 mg/kg; oral: LD50 = 930 mg/kg	
90-72-2	202-013-9	2,4,6-Tris(dimethylaminomethyl)phenol	5 - < 10 %
		oral: ATE = 500 mg/kg	
104-15-4	203-180-0	p-Toluenesulphonic acid	1 - < 5 %
		STOT SE 3; H335: >= 20 - 100	

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

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

**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**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

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

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Foam

Extinguishing powder

Water spray jet

Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

Full water jet

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

Pyrolysis products, toxic

Carbon monoxide

**5.3. Advice for firefighters**



## Safety Data Sheet

according to UK REACH Regulation

### ATA 2004C, Comp. B

Revision date: 12.10.2023

Page 4 of 13

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

##### General advice

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

#### 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains.

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

##### For cleaning up

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand

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

Retain contaminated washing water and dispose it.

#### 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.

Wear personal protection equipment (refer to section 8).

Avoid contact with skin, eyes and clothes.

When using do not eat, drink or smoke.

##### Advice on general occupational hygiene

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme.

Wash hands thoroughly after handling. When using do not eat, drink or smoke.

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

##### Requirements for storage rooms and vessels

Keep container tightly closed.

Store in a place accessible by authorized persons only.

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

##### Hints on joint storage

Do not store together with: Oxidising agent, strong, Organic peroxides

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

##### 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



**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. B**

Revision date: 12.10.2023

Page 5 of 13

**8.1. Control parameters****DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
DNEL type				
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine			
Consumer DNEL, long-term		oral	systemic	0,05 mg/kg bw/day
1477-55-0	m-Phenylenebis(methylamine)			
Worker DNEL, long-term		inhalation	systemic	1,2 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	0,2 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,33 mg/kg bw/day
104-15-4	p-Toluenesulphonic acid			
Worker DNEL, long-term		dermal	systemic	7,6 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	53,6 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	8,7 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	0,05 mg/kg bw/day

**PNEC values**

CAS No	Substance	Value
Environmental compartment		
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine	
Freshwater		0,102 mg/l
Marine water		0,01 mg/l
Freshwater sediment		0,662 mg/kg
Marine sediment		0,062 mg/kg
Micro-organisms in sewage treatment plants (STP)		72 mg/l
1477-55-0	m-Phenylenebis(methylamine)	
Freshwater		0,094 mg/l
Marine water		0,009 mg/l
Freshwater sediment		0,43 mg/kg
Marine sediment		0,043 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,045 mg/kg
104-15-4	p-Toluenesulphonic acid	
Freshwater		0,073 mg/l
Marine water		0,0073 mg/l
Freshwater sediment		0,0577 mg/kg
Marine sediment		0,00577 mg/kg
Soil		0,016 mg/kg

**Additional advice on limit values**

This mixture contains quartz (inorganic filler) which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded. Exposure limit values for respirable dusts are

# Safety Data Sheet

according to UK REACH Regulation

## ATA 2004C, Comp. B

Revision date: 12.10.2023

Page 6 of 13

not relevant for this product.

### 8.2. Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear eye/face protection. Wear safety glasses.

##### Hand protection

Recommended material: NBR (Nitrile rubber)

Breakthrough time: > 480 min

Thickness of the glove material: 0,7 mm

DIN-/EN-Norms EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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.

##### Skin protection

Wear suitable protective clothing.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection with combination filter A1P2 (organic gases/vapors and particles) recommended.

## SECTION 9: Physical and chemical properties

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

Physical state:	solid (pasty)	
Colour:	grey / red	
Odour:	characteristic	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		No data available
Flammability:		No data available
Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Flash point:		not applicable
Auto-ignition temperature:		not applicable
Decomposition temperature:		No data available
pH-Value:	The study does not need to be conducted because the substance is known to be insoluble in water.	
Viscosity / kinematic:		not applicable
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	
Solubility in other solvents		
No data available		

**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. B**

Revision date: 12.10.2023

Page 7 of 13

Partition coefficient n-octanol/water:	not applicable
Vapour pressure:	No data available
Density (at 20 °C):	1,42 g/cm <sup>3</sup>
Relative vapour density:	not applicable
Particle characteristics:	No data available

**9.2. Other information****Information with regard to physical hazard classes****Explosive properties**

The product is not: Explosive.

**Self-ignition temperature**

Solid:

not applicable

**Oxidizing properties**

Not oxidising.

**Other safety characteristics****Evaporation rate:**

No data available

**Solid content:**

No data available

**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 hazard classes as defined in GB CLP Regulation****Acute toxicity**

Harmful if swallowed.

**ATEmix calculated**

ATE (oral) 1051,3 mg/kg; ATE (inhalation vapour) 110,73 mg/l; ATE (inhalation dust/mist) 15,100 mg/l

**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. B**

Revision date: 12.10.2023

Page 8 of 13

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine				
	oral	ATE 500 mg/kg			
1477-55-0	m-Phenylenebis(methylamine)				
	oral	LD50 930 mg/kg	Rat		
	dermal	LD50 2000 mg/kg	Rabbit		
	inhalation (1 h) vapour	LC50 3,89 mg/l	Rat		
	inhalation dust/mist	ATE 1,5 mg/l			
90-72-2	2,4,6-Tris(dimethylaminomethyl)phenol				
	oral	ATE 500 mg/kg			

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

Causes serious eye damage.

**Sensitising effects**

May cause an allergic skin reaction. (2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine))

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**SECTION 12: Ecological information****12.1. Toxicity**

The product is not: Ecotoxic.

**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. B**

Revision date: 12.10.2023

Page 9 of 13

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine					
	Acute algae toxicity	ErC50 mg/l	43,5	72 h	Selenastrum capricornutum	OECD 201
	Fish toxicity	NOEC mg/l	10,9	30 d	Danio rerio (zebrafish)	OECD 210
	Crustacea toxicity	NOEC mg/l	1,02	21 d	Daphnia magna (Big water flea)	OECD 211
1477-55-0	m-Phenylenebis(methylamine)					
	Acute fish toxicity	LC50 mg/l	87,6	96 h	Oryzias latipes (Ricefish)	OECD 203
	Acute algae toxicity	ErC50 mg/l	32,1	72 h	Selenastrum capricornutum	OECD 201
	Acute crustacea toxicity	EC50 mg/l	15,2	48 h	Daphnia magna (Big water flea)	OECD 202
	Crustacea toxicity	NOEC	4,7 mg/l	21 d	Daphnia magna (Big water flea)	OECD 211

**12.2. Persistence and degradability**

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine			
		7 %	28	

**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine	-0,3
1477-55-0	m-Phenylenebis(methylamine)	0,18
104-15-4	p-Toluenesulphonic acid	0,93

**BCF**

CAS No	Chemical name	BCF	Species	Source
1477-55-0	m-Phenylenebis(methylamine)	2,69		

**12.4. Mobility in soil**

The product has not been tested.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. 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.

## Safety Data Sheet

according to UK REACH Regulation

### ATA 2004C, Comp. B

Revision date: 12.10.2023

Page 10 of 13

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Subsequent waste code numbers of the European Waste Catalogue are considered as recommendations.  
Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### List of Wastes Code - 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

#### List of Wastes Code - 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

#### List of Wastes Code - contaminated packaging

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

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN number or ID number:

UN 3259

#### 14.2. UN proper shipping name:

AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or 2,4,4)  
-Trimethylhexane-1,6-diamine; 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:

2

Hazard No:

80

Tunnel restriction code:

E

### Inland waterways transport (ADN)

#### 14.1. UN number or ID number:

UN 3259

#### 14.2. UN proper shipping name:

AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or 2,4,4)  
-Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine))

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

8

#### 14.4. Packing group:

II

Hazard label:

8

# Safety Data Sheet

according to UK REACH Regulation

## ATA 2004C, Comp. B

Revision date: 12.10.2023

Page 11 of 13



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

### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 3259  
**14.2. UN proper shipping name:** AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine))  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8



Special Provisions: 274  
Limited quantity: 1 kg  
Excepted quantity: E2  
EmS: F-A, S-B

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

**14.1. UN number or ID number:** UN 3259  
**14.2. UN proper shipping name:** AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine; 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

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

No information available.

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

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

#### EU regulatory information



## Safety Data Sheet

according to UK REACH Regulation

### ATA 2004C, Comp. B

Revision date: 12.10.2023

Page 12 of 13

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III):

**Additional information**

VOC content: 21,7 % (DIN EN ISO 11890-2)

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

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Abbreviations and acronyms**

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation

(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

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

BCF: Bioconcentration factor

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level

DNEL: Derived No Effect Level

EC50: Effective concentration, 50%

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

ICAO: International Civil Aviation Organization

IC50: Inhibitory concentration, 50%

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

NOEC: No Observed Effect Concentration

OECD: Organisation 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

Acute Tox. 4: Acute toxicity, Category 4

Aquatic Chronic 3: Long-term aquatic hazard, Category 3

Eye Dam. 1: Serious eye damage/eye irritation, Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Category 2

Skin Corr. 1B: Skin corrosion/irritation, Category 1B

Skin Irrit. 2: Serious eye damage/eye irritation, Category 2

Skin Sens. 1: Skin sensitization, Category 1



**Safety Data Sheet**

according to UK REACH Regulation

**ATA 2004C, Comp. B**

Revision date: 12.10.2023

Page 13 of 13

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method

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

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.)*