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# Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

**1.1 Product identifier** 

(GB)

# 2K-Epoxy Panel-Bond SBS 161 g Art.: 6400 4005 1 (A), Art.: 6404 4005 1 (A)

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

Uses advised against: No information available at present.

# 1.3 Details of the supplier of the safety data sheet

Theo Förch GmbH & Co. KG Theo-Förch-Str. 11 – 15 74196 Neuenstadt Tel.: 07139/95-0 Fax: 07139/95-199 Email: info@foerch.de Homepage: www.foerch.com

Details of the supplier of the safety data sheet see section 16 of this safety data sheet.

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

# 1.4 Emergency telephone number Emergency information services / official advisory body:

# Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (TFC)

# **SECTION 2: Hazards identification**

	of the substance or mixtur ording to Regulation (EC)	
Hazard class	Hazard category	Hazard statement
Skin Corr.	1B	H314-Causes severe skin burns and eye damage.
Eye Dam.	1	H318-Causes serious eye damage.
Skin Sens.	1	H317-May cause an allergic skin reaction.

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)



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H314-Causes severe skin burns and eye damage. H317-May cause an allergic skin reaction.

P260-Do not breathe vapours or spray. 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.

Bis[(dimethylamino)methyl]phenol 3,3'-oxybis(ethyleneoxy)bis(propylamine) 2-methylpentane-1,5-diamine 2-ethyl-4-methylimidazole

# 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

Dangerous vapours heavier than air.

In case of spreading near the ground, flashback to distance sources of ignition is possible.

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

# 3.1 Substances

### n.a. 3.2 Mixtures

3,3'-oxybis(ethyleneoxy)bis(propylamine)	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	224-207-2
CAS	4246-51-9
content %	10-20
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Corr. 1B, H314
	Eye Dam. 1, H318
	Skin Sens. 1, H317

2,4,6-tris(dimethylaminomethyl)phenol	
Registration number (REACH)	
Index	603-069-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	202-013-9
CAS	90-72-2
content %	1-10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Aquatic Chronic 3, H412
2-ethyl-4-methylimidazole	



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Registration number (REACH)	
Index	
	213-234-5
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	931-36-2
content %	1-5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	Skin Sens. 1, H317
2-methylpentane-1,5-diamine	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	239-556-6
CAS	15520-10-2
content %	1-2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
Classification according to Regulation (EC) 1212/2006 (CLP), M-factors	
	Acute Tox. 4, H332
	Acute Tox. 4, H312
	Skin Corr. 1A, H314
	Eye Dam. 1, H318
	STOT SE 3, H335
Bis[(dimethylamino)methyl]phenol	
Registration number (REACH)	
EINECS, ELINCS, NLP, REACH-IT List-No.	275-162-0
CAS	71074-89-0
content %	1-2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Corr. 1B, H314
	Eye Dam. 1, H318
	<b>, , , , , , , , , ,</b>
4-methylimidazole	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	212-497-3
CAS	822-36-6
content %	0,1-0,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 3, H311
	Acute Tox. 4, H302
	Skin Corr. 1B, H314
	Eye Dam. 1, H318
	Carc. 2, H351

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Cauterizations not treated lead to wounds difficult to heal.

# Eye contact

Remove contact lenses.



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Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available. Protect uninjured eye. Follow-up examination by an ophthalmologist.

# Ingestion

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Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. Corrosive burns on skin as well as mucous membrane possible. Risk of serious damage to eyes. Corneal damage. Danger of blindness. Ingestion: Pain in the mouth and throat stomach pain

### Oesophageal perforation Gastric perforation

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

# SECTION 5: Firefighting measures

# 5.1 Extinguishing media

# Suitable extinguishing media

# Water jet spray/foam/CO2/dry extinguisher Unsuitable extinguishing media

High volume water jet

# 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Oxides of nitrogen Ammonia Formaldehyde Toxic gases Flammable vapour/air mixtures

# 5.3 Advice for firefighters

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition. Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Keep unprotected persons away. Avoid contact with eyes or skin.

# 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

# 6.2 Environmental precautions

If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system.



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### If accidental entry into drainage system occurs, inform responsible authorities. 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13. Fill the absorbed material into lockable containers.

# 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

# **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

# 7.1 Precautions for safe handling

# 7.1.1 General recommendations

Ensure good ventilation.

(GB)

Avoid inhalation of the vapours.

Avoid contact with eyes or skin. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

# 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals. Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Store in a well-ventilated place.

Store cool.

Store in a dry place. Observe special storage conditions.

# 7.3 Specific end use(s)

No information available at present.

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

# 8.1 Control parameters

Chemical Name	Silica glass							
WEL-TWA: 0,08 mg/m <sup>3</sup> (fused, res	spirable dust)	WEL-STEL:						
Monitoring procedures:								
BMGV:			Other information:					
Chemical Name	Silicon dioxide							
WEL-TWA: 6 mg/m3 (total inh. due	st), 2,4 mg/m3	WEL-STEL:						
(resp. dust)								
Monitoring procedures:	-							
BMGV:			Other information:					

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).



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# 8.2 Exposure controls 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

(GB)

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

# 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). Recommended Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: 0,5

Permeation time (penetration time) in minutes: 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary. If fumes build up, use suitable breathing mask.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

# 8.2.3 Environmental exposure controls

No information available at present.

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

# 9.1 Information on basic physical and chemical properties

Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Liquid, Viscous Gold, Brown Slightly, Amine-type There is no information available on this parameter. 132,5 °C Flammable



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Lower explosion limit: Upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature: pH: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:

# 9.2 Other information

Explosives: Oxidising liquids: Evaporation rate:

(GB)

There is no information available on this parameter. There is no information available on this parameter. >93,4 °C (Setaflash (Small Scale, Rapid Equilibrium), closed cup) There is no information available on this parameter. There is no information available on this parameter. Mixture is non-soluble (in water). >10000 mm2/s (40°C) Insoluble Does not apply to mixtures. <10 hPa (20°C) 1,13 g/cm3 (20°C) >1 Does not apply to liquids.

Product is not explosive. No

# **SECTION 10: Stability and reactivity**

# **10.1 Reactivity**

The product has not been tested.

# **10.2 Chemical stability**

Stable with proper storage and handling.

## 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur during storage and handling under normal conditions.

# **10.4 Conditions to avoid**

Strong heat Moisture

### **10.5 Incompatible materials**

Avoid contact with strong alkalis. Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

# 10.6 Hazardous decomposition products

No decomposition when used as directed.

**SECTION 11: Toxicological information** 

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

Possibly more information on health effects, see Section 2.1 (classification).

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated value, Vapours
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			calculated value, Aerosol, Mist
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.



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2-ethyl-4-methylimidazole								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:	LD50	~731	mg/kg	Rat	OECD 401 (Acute Oral			
					Toxicity)			
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Eye Dam. 1		
					Irritation/Corrosion)			
Respiratory or skin					OECD 429 (Skin	Skin Sens. 1		
sensitisation:					Sensitisation - Local			
					Lymph Node Assay)			
Germ cell mutagenicity:					(Ames-Test)	Negative		

2-methylpentane-1,5-diamine	2-methylpentane-1,5-diamine								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by oral route:	LD50	1690	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)				
Acute toxicity, by dermal route:	LD50	1870	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion			
Acute toxicity, by inhalation:	LC50	4,9	mg/l/1h	Rat	OECD 403 (Acute Inhalation Toxicity)	Dust, Mist			
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative			
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative			
Germ cell mutagenicity:					OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Analogous conclusion			
Symptoms:						respiratory distress, coughing, mucous membrane irritation			

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 423 (Acute Oral	
					Toxicity - Acute Toxic	
					Class Method)	
Acute toxicity, by dermal route:	LD50	> 2000	mg/kg	Rat	OECD 402 (Acute	
					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
Aspiration hazard:						No

# 11.2. Information on other hazards

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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Endocrine disrupting properties:						Does not apply		
						to mixtures.		
Other information:						No other		
						relevant		
						information		
						available on		
						adverse effects		
						on health.		



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# **SECTION 12: Ecological information**

2K-Epoxy Panel-Bond SI							
161 g Art.: 6400 4005 1 (A							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							n.d.a.
degradability:							
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Endocrine							Does not apply
disrupting properties:							to mixtures.
12.7. Other adverse							No information
effects:							available on
							other adverse
							effects on the
							environment.
Other information:							According to the
							recipe, contains
							no AOX.
Other information:							DOC-elimination
							degree(complex
							ng organic
							substance)>=
							80%/28d: n.a.

2-ethyl-4-methylimidazole								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
12.1. Toxicity to fish:	LC50	96h	68,1	mg/l	Leuciscus idus	DIN 38412 T.15		
12.1. Toxicity to daphnia:	EC50	48h	297	mg/l	Daphnia magna			
12.1. Toxicity to algae:	EC50	72h	124,8	mg/l	Desmodesmus	DIN 38412 T.9		
					subspicatus			
12.2. Persistence and		28d	80-90	%		OECD 301 A	Readily	
degradability:						(Ready	biodegradable	
						Biodegradability -	-	
						DOC Die-Away		
						Test)		

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and		28d	100	%		OECD 301 D	
degradability:						(Ready	
						Biodegradability -	
						Closed Bottle Test)	
12.1. Toxicity to fish:	LC50	48h	130	mg/l	Leuciscus idus	OECD 203 (Fish,	
						Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	4,16	mg/l	Daphnia magna	OECD 211	Analogous
						(Daphnia magna	conclusion
						Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	50	mg/l	Daphnia magna	U.S. EPA-660/3-	Analogous
						75-009	conclusion
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	Analogous
					a subcapitata	Growth Inhibition	conclusion
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	10	mg/l	Pseudokirchneriell	OECD 201 (Alga,	Analogous
					a subcapitata	Growth Inhibition	conclusion
						Test)	



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Toxicity to bacteria:	EC50	18h	30	mg/l	Pseudomonas putida	

Silicon dioxide							L
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	EC0	96h	>10000	mg/l	Brachydanio rerio	OECD 203 (Fish,	
				_	-	Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	EC0	24h	>1000	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	ErC50	72h	>=10000	mg/l	Scenedesmus	OECD 201 (Alga,	
					subspicatus	Growth Inhibition	
						Test)	
12.2. Persistence and							Inorganic
degradability:							products cannot
							be eliminated
							from water
							through
							biological
							purification
							methods.
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance

# **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

# For the substance / mixture / residual amounts

EC disposal code no .:

(GB)

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

20 01 27 paint, inks, adhesives and resins containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

# For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

# **SECTION 14: Transport information**

General statements 14.1. UN number or ID number: Transport by road/by rail (ADR/RID)	3267	
<ul> <li>14.2. UN proper shipping name:</li> <li>UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3,3'-O)</li> <li>METHYLPENTAN-1,5-DIAMINE)</li> <li>14.3. Transport hazard class(es):</li> <li>14.4. Packing group:</li> <li>Classification code:</li> <li>LQ:</li> <li>14.5. Environmental hazards:</li> </ul>	XYBIS(ETHYLENOXY) BIS(PROPYLAMINE),2- 8 II C7 1 L Not applicable	V



(GB)	
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2K-Epoxy Panel-Bond SBS	
161 g Art.: 6400 4005 1 (A), Art.: 6404 4005 1 (A)	
Tunnel restriction code:	E
Transport by sea (IMDG-code)	
14.2. UN proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3,3'-OXYBIS(ETHYLI	
DIAMINE)	LINOAT) BIS(FROFTLAMINE),2-METITEFENTAN-1,3-
14.3. Transport hazard class(es):	8
14.4. Packing group:	II · · · ·
EmS:	F-A, S-B
Marine Pollutant:	n.a
14.5. Environmental hazards:	Not applicable
Transport by air (IATA)	
14.2. UN proper shipping name:	<u>^</u>
Corrosive liquid, basic, organic, n.o.s. (3,3'-OXYBIS(ETHYLENOXY) BIS	
14.3. Transport hazard class(es):	
14.4. Packing group:	 Net em lie et le
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user	
Persons employed in transporting dangerous goods must be trained.	
All persons involved in transporting must observe safety regulations.	
Precautions must be taken to prevent damage.	
14.7. Maritime transport in bulk according to IMO	
Freighted as packaged goods rather than in bulk, therefore not applicable	e.
Minimum amount regulations have not been taken into account.	
Danger code and packing code on request.	
Comply with special provisions.	
SECTION 15: Regu	Ilatory information
15.1 Safety, health and environmental regulations	/legislation specific for the substance or mixture
Observe restrictions:	
Comply with national regulations/laws governing the protection of young Comply with trade association/occupational health regulations.	people at work (national implementation of the Directive 94/33/EC)!
Directive 2010/75/EU (VOC):	0,004 %
<b>15.2 Chemical safety assessment</b> A chemical safety assessment is not provided for mixtures.	

# **SECTION 16: Other information**

1-16

Revised sections:

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Skin Corr. 1B, H314	Classification according to calculation procedure.
Eye Dam. 1, H318	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). H314 Causes severe skin burns and eye damage.

H314 Causes severe skin burns and eye damage H302 Harmful if swallowed. H311 Toxic in contact with skin.



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H312 Harmful in contact with skin.
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.
H351 Suspected of causing cancer.
H412 Harmful to aquatic life with long lasting effects.

(GB)

Skin Corr. — Skin corrosion Eye Dam. — Serious eye damage Skin Sens. — Skin sensitization Acute Tox. — Acute toxicity - oral Skin Irrit. — Skin irritation Eye Irrit. — Eye irritation Aquatic Chronic — Hazardous to the aquatic environment - chronic Acute Tox. — Acute toxicity - inhalation Acute Tox. — Acute toxicity - inhalation Acute Tox. — Acute toxicity - dermal STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Carc. — Carcinogenicity

# Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA). Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA). Safety data sheets for the constituent substances. ECHA Homepage - Information about chemicals. GESTIS Substance Database (Germany). German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended. National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

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# Any abbreviations and acronyms used in this document:



(GB) Page 14 of 31 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0006 Replacing version dated / version: 09.11.2020 / 0005 Valid from: 01.11.2021 PDF print date: 01.11.2021 2K-Epoxy Panel-Bond SBS 161 g Art.: 6400 4005 1 (A), Art.: 6404 4005 1 (A) according, according to acc., acc. to Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road) Adsorbable organic halogen compounds AOX approx. approximately Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** The International Bromine Council BSEF body weight bw CAS **Chemical Abstracts Service** Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances CLP and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon dw dry weight e.g. for example (abbreviation of Latin 'exempli gratia'), for instance Effect Concentration/Level of x % on reduction of the biomass (algae, plants) EbCx, EyCx, EbLx (x = 10, 50) European Community FC ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect EEC European Economic Community EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances ΕN **European Norms** EPA United States Environmental Protection Agency (United States of America) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)  $ErCx, E\mu Cx, ErLx (x = 10, 50)$ etc. et cetera FU European Union EVAL Ethylene-vinyl alcohol copolymer Fax number Fax. gen. general GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Adsorption coefficient of organic carbon in the soil Koc octanol-water partition coefficient Kow IARC International Agency for Research on Cancer International Air Transport Association IATA IBC (Code) International Bulk Chemical (Code) International Maritime Code for Dangerous Goods IMDG-code including, inclusive incl IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) Logarithm of adsorption coefficient of organic carbon in the soil Log Koc Logarithm of octanol-water partition coefficient Log Kow, Log Pow Limited Quantities LQ MARPOL International Convention for the Prevention of Marine Pollution from Ships n.a. not applicable not available n.av. not checked n.c. n.d.a. no data available NIOSH National Institute for Occupational Safety and Health (USA) NLP No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development organic org. OSHA Occupational Safety and Health Administration (USA) persistent, bioaccumulative and toxic PBT



Page 15 of 31 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0006 Replacing version dated / version: 09.11.2020 / 0005 Valid from: 01.11.2021 PDF print date: 01.11.2021 2K-Epoxy Panel-Bond SBS 161 g Art.: 6400 4005 1 (A), Art.: 6404 4005 1 (A) PF Polyethylene PNEC Predicted No Effect Concentration ppm parts per million PVC Polyvinylchloride REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern Tel. Telephone TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

(GB)

These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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# Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

**1.1 Product identifier** 

(GB)

# 2K-Epoxy Panel-Bond SBS 81 g Art.: 6400 4005 1 (B), Art.: 6404 4005 1 (B)

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

Uses advised against: No information available at present.

# 1.3 Details of the supplier of the safety data sheet

Theo Förch GmbH & Co. KG Theo-Förch-Str. 11 – 15 74196 Neuenstadt Tel.: 07139/95-0 Fax: 07139/95-199 Email: info@foerch.de Homepage: www.foerch.com

Details of the supplier of the safety data sheet see section 16 of this safety data sheet.

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

# 1.4 Emergency telephone number

Emergency information services / official advisory body:

# Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (TFC)

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP)						
Hazard class	Hazard category	Hazard statement				
Eye Irrit.	2	H319-Causes serious eye irritation.				
Skin Irrit.	2	H315-Causes skin irritation.				
Skin Sens.	1	H317-May cause an allergic skin reaction.				
Aquatic Chronic	2	H411-Toxic to aquatic life with long lasting effects.				

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



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

P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves / eye protection / face protection.

P314-Get medical advice / attention if you feel unwell.

1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane Bis-[4-(2,3-epoxypropoxy)phenyl]propane

# 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

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

# 3.1 Substances

# <sup>n.a.</sup> 3.2 Mixtures

Bis-[4-(2,3-epoxypropoxy)phenyl]propane	
Registration number (REACH)	01-2119456619-26-XXXX
Index	603-073-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	216-823-5
CAS	1675-54-3
content %	40-<60
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Skin Sens. 1, H317
	Aquatic Chronic 2, H411
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
	Eye Irrit. 2, H319: >=5 %
1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane	
Registration number (REACH)	
Index	
Index EINECS, ELINCS, NLP, REACH-IT List-No.	 238-098-4
EINECS, ELINCS, NLP, REACH-IT List-No.	238-098-4
EINECS, ELINCS, NLP, REACH-IT List-No. CAS	238-098-4 14228-73-0
EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	238-098-4 14228-73-0 10-<20
EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	238-098-4 14228-73-0 10-<20 Skin Irrit. 2, H315
EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	238-098-4 14228-73-0 10-<20 Skin Irrit. 2, H315 Eye Irrit. 2, H319
EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	238-098-4 14228-73-0 10-<20 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	238-098-4 14228-73-0 10-<20 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	238-098-4 14228-73-0 10-<20 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317



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Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	219-784-2
CAS	2530-83-8
content %	1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Eye Dam. 1, H318
	Aquatic Chronic 3, H412

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

### Inhalation

(GB)

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

# Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

# Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

## Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. Irritant to mucosa of the nose and throat eyes, reddened Watering eyes reddening of the skin Dermatitis (skin inflammation) Allergic reaction Ingestion: Nausea Vomiting diarrhoea **4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media Suitable extinguishing media Water jet spray/foam/CO2/dry extinguisher Unsuitable extinguishing media High volume water jet 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop: Oxides of carbon Hydrogen chloride Formaldehyde Toxic gases 5.3 Advice for firefighters For personal protective equipment see Section 8.



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In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition. Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Keep unprotected persons away.

(GB)

Avoid contact with eyes or skin.

# 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

**6.2 Environmental precautions** 

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

# 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13. Fill the absorbed material into lockable containers.

# 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

**SECTION 7: Handling and storage** 

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

# 7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation. Avoid inhalation of the vapours. Avoid contact with eyes or skin. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Store in a well-ventilated place.

Store cool. Store in a dry place.

# 7.3 Specific end use(s)

No information available at present.

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

# 8.1 Control parameters



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Chemical Name	Silicon dioxide			
WEL-TWA: 6 mg/m3 (total inh. du	st), 2,4 mg/m3	WEL-STEL:		
(resp. dust)				
Monitoring procedures:	-			
BMGV:			Other information:	
Chemical Name	Silica glass			
WEL-TWA: 0,08 mg/m <sup>3</sup> (fused, res	spirable dust)	WEL-STEL:		
Monitoring procedures:	-			
BMGV:			Other information:	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	3	µg/l	
	Environment - marine		PNEC	0,3	µg/l	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - sporadic (intermittent) release		PNEC	0,012	mg/l	
	Environment - sediment		PNEC	0,05	mg/kg dw	
	Environment - sediment, freshwater		PNEC	0,5	mg/kg dw	
	Environment - sediment, marine		PNEC	0,5	mg/kg dw	
Consumer	Human - dermal	Short term, systemic effects	DNEL	3,6	mg/kg bw/d	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,75	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	0,75	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	3,6	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,75	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,75	mg/kg bw/d	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	8,3	mg/kg bw/d	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	12,3	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	8,3	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	12,3	mg/m3	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

# 8.2 Exposure controls 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.



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If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

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EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

# 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). Recommended Protective gloves in butyl rubber (EN ISO 374). Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: 0,5 Permeation time (penetration time) in minutes: 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary. If fumes build up, use suitable breathing mask.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

# 8.2.3 Environmental exposure controls

No information available at present.

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

# 9.1 Information on basic physical and chemical properties

Physical state:	Liquid, Viscous
Colour:	Black
Odour:	Mild
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	>150 °C
Flammability:	Flammable
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	>99 °C (Setaflash (Small Scale, Rapid Equilibrium), closed cup)
Auto-ignition temperature:	There is no information available on this parameter.



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Decomposition temperature: pH: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:

# 9.2 Other information

Explosives: Oxidising liquids:

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There is no information available on this parameter. Mixture is non-soluble (in water). >10000 mm2/s (40°C) Insoluble Does not apply to mixtures. <0,1 hPa (20°C) 1,089 g/cm3 (20°C) There is no information available on this parameter. Does not apply to liquids.

Product is not explosive.

No

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

The product has not been tested.

# **10.2 Chemical stability**

Stable with proper storage and handling.

# 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur during storage and handling under normal conditions.

# 10.4 Conditions to avoid

Strong heat Moisture

# **10.5 Incompatible materials**

Avoid contact with strong alkalis. Avoid contact with strong oxidizing agents. Avoid contact with strong acids.

# **10.6 Hazardous decomposition products**

No decomposition when used as directed.

**SECTION 11: Toxicological information** 

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

Possibly more information on health effects, see Section 2.1 (classification).

2K-Epoxy Panel-Bond SBS 81 g Art.: 6400 4005 1 (B), Art.: 6404 4005 1 (B) Unit Value Toxicity / effect Endpoint Organism Notes Test method Acute toxicity, by oral route: n.d.a. Acute toxicity, by dermal route: n.d.a. Acute toxicity, by inhalation: n.d.a. Skin corrosion/irritation: n.d.a. Serious eye damage/irritation: n.d.a. Respiratory or skin n.d.a. sensitisation: Germ cell mutagenicity: n.d.a. Carcinogenicity: n.d.a. Reproductive toxicity: n.d.a. Specific target organ toxicity n.d.a. single exposure (STOT-SE): Specific target organ toxicity n.d.a. repeated exposure (STOT-RE): Aspiration hazard: n.d.a. Symptoms: n.d.a.

Bis-[4-(2,3-epoxypropoxy)phenyl]propane						
Endpoint	Value	Unit	Organism	Test method	Notes	
LD50	>2000	mg/kg	Rat	OECD 420 (Acute Oral		
				toxicity - Fixe Dose		
				Procedure)		
LD50	>2000	mg/kg	Rat	OECD 402 (Acute		
				Dermal Toxicity)		
	Endpoint LD50	Endpoint         Value           LD50         >2000	EndpointValueUnitLD50>2000mg/kg	EndpointValueUnitOrganismLD50>2000mg/kgRat	Endpoint         Value         Unit         Organism         Test method           LD50         >2000         mg/kg         Rat         OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)           LD50         >2000         mg/kg         Rat         OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)           LD50         >2000         mg/kg         Rat         OECD 402 (Acute	



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81 g Art.: 6400 4005 1 (B), Art.: 6	6404 4005 1 (B	5)				
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	500	mg/kg	Rat	OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	>= 1000	mg/kg/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	0,225	mg/kg	Rat	OECD 412 (Subacute Inhalation Toxicity - 28- Day Study)	
Symptoms:						acidosis, drop in blood pressure, vomiting, headaches, cramps, dizziness, visual disturbances, nausea
Silicon dioxide						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Acute toxicity, by dermal route:	LD50	> 2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Aspiration hazard:						No
11.2. Information on ot	her hazaro	ds				
2K-Epoxy Panel-Bond SBS 81 g Art.: 6400 4005 1 (B), Art.: .				-		1
2K-Epoxy Panel-Bond SBS 81 g Art.: 6400 4005 1 (B), Art.: Toxicity / effect	6404 4005 1 ( Endpoint	B) Value	Unit	Organism	Test method	Notes
2K-Epoxy Panel-Bond SBS 81 g Art.: 6400 4005 1 (B), Art.: Toxicity / effect Endocrine disrupting properties:			Unit	Organism	Test method	Notes Does not apply to mixtures.

# **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification). 2K-Epoxy Panel-Bond SBS								
81 g Art.: 6400 4005 1 (B), Art.: 6404 4005 1 (B)								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
12.1. Toxicity to fish:							n.d.a.	
12.1. Toxicity to daphnia:							n.d.a.	
12.1. Toxicity to algae:							n.d.a.	
12.2. Persistence and							n.d.a.	
degradability:								
12.3. Bioaccumulative							n.d.a.	
potential:								
12.4. Mobility in soil:							n.d.a.	



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· · · · · · · · · · · · · · · · · · ·		 		1	
12.5. Results of PBT					n.d.a.
and vPvB assessment					
12.6. Endocrine					Does not apply
disrupting properties:					to mixtures.
12.7. Other adverse					No information
effects:					available on
enecis.					
					other adverse
					effects on the
					environment.
Other information:	AOX	<0,0001	%		
Other information:					DOC-elimination
					degree(complexi
					ng organic
					substance)>=
					80%/28d: n.a.
		1	1	1	00 /0/∠00. II.d.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to algae:	NOEC/NOEL	72h	4,2	mg/l	Scenedesmus		
				_	subspicatus		
12.1. Toxicity to fish:	LC50	96h	1,5-2	mg/l	Oncorhynchus	OECD 203 (Fish,	
-				-	mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	EC50	48h	1,8-2,7	mg/l	Daphnia magna	OECD 202	
				-		(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,3	mg/l	Daphnia magna	OECD 211	
· ·				Ū		(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae:	LC50	72h	9,4	mg/l	Selenastrum	U.Ś. EPA	
				_	capricornutum	ECOTOX	
						Database	
12.2. Persistence and		28d	6-12	%	activated sludge	OECD 301 B	Not readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Co2 Evolution	
						Test)	
12.2. Persistence and		28d	5	%	activated sludge	OECD 301 F	Not readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Manometric	
						Respirometry Test)	
12.3. Bioaccumulative	BCF		3-31				Low
potential:							
12.3. Bioaccumulative	Log Pow		2,64-			OECD 117	Low
potential:			3,78			(Partition	
						Coefficient (n-	
						octanol/water) -	
						HPLC method)	
12.4. Mobility in soil:	Koc		445				
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substanc
Toxicity to bacteria:	IC50	3h	>100	mg/l	activated sludge		

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
12.2. Persistence and degradability:	DOC	28d	37	%	activated sludge	Regulation (EC) 440/2008 C.4-A (DETERMINATIO N OF 'READY' BIODEGRADABILI TY - DOC DIE- AWAY TEST)	Not readily biodegradable	



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12.3. Bioaccumulative potential:	Log Pow		0,5				Not to be expected 20 °C
12.1. Toxicity to fish:	LC0	96h	30	mg/l	Cyprinus carpio	Regulation (EC) 440/2008 C.1 (ACUTE TOXICITY FOR FISH)	
12.1. Toxicity to fish:	LC50	96h	55	mg/l	Cyprinus carpio	Regulation (EC) 440/2008 C.1 (ACUTE TOXICITY FOR FISH)	
12.1. Toxicity to daphnia:	EC50	48h	324	mg/l	Daphnia magna	U.S. EPA ECOTOX Database	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>=100	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	96h	350	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	96h	130	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to bacteria:	NOEC/NOEL	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.4. Mobility in soil:							Slight

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	ECO	96h	>10000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC0	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	ErC50	72h	>=10000	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Inorganic products cannot be eliminated from water through biological purification methods.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

# **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods



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# For the substance / mixture / residual amounts

EC disposal code no : The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU) 08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances 20 01 27 paint, inks, adhesives and resins containing hazardous substances Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. suitable incineration plant. E.g. dispose at suitable refuse site. For contaminated packing material Pay attention to local and national official regulations. Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance. **SECTION 14: Transport information General statements** 14.1. UN number or ID number: 3082 Transport by road/by rail (ADR/RID) 14.2. UN proper shipping name: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIS-[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE) 9 14.3. Transport hazard class(es): 14.4. Packing group: Ш Classification code: M6 I Q: 5 I 14.5. Environmental hazards: environmentally hazardous Tunnel restriction code: Transport by sea (IMDG-code) 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIS-[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE) 11h, 14.3. Transport hazard class(es): 9 14.4. Packing group: Ш EmS: F-A, S-F Marine Pollutant: Yes 14.5. Environmental hazards: environmentally hazardous Transport by air (IATA) 14.2. UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (BIS-[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE) 14.3. Transport hazard class(es): 9 14.4. Packing group: Ш 14.5. Environmental hazards: environmentally hazardous 14.6. Special precautions for user Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations. Precautions must be taken to prevent damage. 14.7. Maritime transport in bulk according to IMO instruments Freighted as packaged goods rather than in bulk, therefore not applicable. Minimum amount regulations have not been taken into account. Danger code and packing code on request. Comply with special provisions. **SECTION 15: Regulatory information** 

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

Observe restrictions:



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Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for the	referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
E2		200	500

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

0 %

Observe incident regulations.

# 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

**SECTION 16: Other information** 

Revised sections:

(GB)

1-16

Employee training in handling dangerous goods is required. These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

# Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Eye Irrit. 2, H319	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Eye Irrit. — Eye irritation Skin Irrit. — Skin irritation Skin Sens. — Skin sensitization Aquatic Chronic — Hazardous to the aquatic environment - chronic Eye Dam. — Serious eye damage

# Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA). Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA). Safety data sheets for the constituent substances. ECHA Homepage - Information about chemicals. GESTIS Substance Database (Germany). German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).



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EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended. National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

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# Any abbreviations and acronyms used in this document:

acc., acc. to according, according to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) ATF Acute Toxicity Estimate Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BAuA BCF **Bioconcentration factor** BSEF The International Bromine Council bw body weight CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level Dissolved organic carbon DOC drv weight dw e.g. for example (abbreviation of Latin 'exempli gratia'), for instance EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community EC ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect European Economic Community EEC



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not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

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