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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

#### **Techno Repair Adhesive**

# 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

(GB)

TECHNIQUA HANDELS GmbH Hartleitnerstraße 3 A-4653 Eberstalzell Tel: +43 (0) 7241 213 79

E-Mail: office@techniqua.at

#### 1.4 Emergency telephone number

#### **Emergency information services / official advisory body:**

Poisoning Information Centre (VIZ), Stubenring 6, A-1010 Vienna, Emergency call 0-24 hrs: +43 1 406 43 43, Office hours: Monday to Friday, 8 to 16 hrs, Tel.: +43 1 406 68 98

#### **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
Flam. Liq.	2	H225-Highly flammable liquid and vapour.
Skin Corr.	1A	H314-Causes severe skin burns and eye damage.
STOT SE	3	H335-May cause respiratory irritation.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

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



\_ a...go.

H225-Highly flammable liquid and vapour. H314-Causes severe skin burns and eye damage. H335-May cause respiratory irritation. H317-May cause an allergic skin reaction. H412-Harmful to aquatic life with long lasting effects.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260-Do not breathe vapours. P280-Wear protective gloves / protective clothing and eye protection / face protection.



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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.

Methyl methacrylate Methacrylic acid Maleic acid Rosin

Ethoxylated trimethylolpropane triacrylate

#### 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 %).

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

#### 3.1 Substance

## n.a. 3.2 Mixture

Methyl methacrylate	Substance for which an EU exposure limit value
	applies.
Registration number (REACH)	01-2119452498-28-XXXX
Index	607-035-00-6
EINECS, ELINCS, NLP	201-297-1
CAS	80-62-6
content %	50-<75
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225
	STOT SE 3, H335
	Skin Irrit. 2, H315
	Skin Sens. 1, H317

Methacrylic acid	
Registration number (REACH)	01-2119463884-26-XXXX
Index	607-088-00-5
EINECS, ELINCS, NLP	201-204-4
CAS	79-41-4
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302
	Acute Tox. 3, H311
	Acute Tox. 4, H332
	Skin Corr. 1A, H314

Maleic acid	
Registration number (REACH)	01-2119488705-25-XXXX
Index	607-095-00-3
EINECS, ELINCS, NLP	203-742-5
CAS	110-16-7
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302
	Eye Irrit. 2, H319
	STOT SE 3, H335
	Skin Irrit. 2, H315
	Skin Sens. 1, H317

Rosin	
Registration number (REACH)	01-2119480418-32-XXXX
Index	650-015-00-7
EINECS, ELINCS, NLP	232-475-7
CAS	8050-09-7
content %	0,01-<3



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Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Sens. 1, H317

Ethoroulated trimethylologopene tricogulate	
Ethoxylated trimethylolpropane triacrylate	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	
CAS	28961-43-5
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP)	Eye Irrit. 2, H319
	Skin Sens. 1, H317

alpha-alpha-dimethylbenzyl hydroperoxide	
Registration number (REACH)	
Index	617-002-00-8
EINECS, ELINCS, NLP	201-254-7
CAS	80-15-9
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 3, H331
	Acute Tox. 4, H312
	Acute Tox. 4, H302
	STOT RE 2, H373
	Skin Corr. 1B, H314
	Aquatic Chronic 2, H411
	Org. Perox. Type E, H242

2,6-di-tert-butyl-p-cresol	
Registration number (REACH)	01-2119565113-46-XXXX
Index	
EINECS, ELINCS, NLP	204-881-4
CAS	128-37-0
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP)	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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 3.1/3.2 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

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.

#### 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.

#### **Eve contact**

Remove contact lenses.

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

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.

Danger of blindness

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Ingestion:

Pain in the mouth and throat Oesophageal perforation

stomach pain Gastric perforation Inhalation:

Irritation of the respiratory tract

Coughing

#### 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

Halogen halides

Toxic gases

Explosive vapour/air mixture

Dangerous vapours heavier than air.

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

#### 5.3 Advice for firefighters

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.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

#### **SECTION 6: Accidental release measures**

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

Keep unprotected persons away.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

#### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

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

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.

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Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

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.

Do not store with flammable or self-igniting materials.

Protect from direct sunlight and warming.

Observe special storage conditions.

Store in a well ventilated place.

Protect from direct sunlight and warming.

Store cool.

#### 7.3 Specific end use(s)

No information available at present.

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

#### 8.1 Control parameters

Chemical Name	Methyl methacrylate			Content %:50- <75
WEL-TWA: 50 ppm (208 mg/m3 (EU)	ppm (EU)	100 ppm (416 mg/m3) (WEL), 100		
Monitoring procedures:		184 S (548 618)		
		lethyl and ethyl metacrylate) - 2003 - El /000/2002-16 card 109-2 (2004)	U project	
BMGV:	- BC/CEIVENTIA	Other information:		
®				Content %:1-
Chemical Name	Methacrylic acid			<10
WEL-TWA: 20 ppm (72 mg/m3)	WEL-STEL:	40 ppm (143 mg/m3)		
Monitoring procedures:				
BMGV:		Other information:		
Chemical Name	Rosin			Content %:0,01- <3
WEL-TWA: 0,05 mg/m3 (Rosin- fume)	based solder flux   WEL-STEL: flux fume)	0,15 mg/m3 (Rosin-based solder		
Monitoring procedures:	<del></del>			
BMGV:		Other information: flux fume)	Sen (Ros	sin-based solder
©® Chemical Name	2,6-di-tert-butyl-p-cresol			Content %:0,1- <1
WEL-TWA: 10 mg/m3	WEL-STEL:			
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). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | 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.

#### Methyl methacrylate



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Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,94	mg/l	
	Environment - marine		PNEC	0,094	mg/l	
	Environment - sediment		PNEC	5,74	mg/kg	
Industrial / commercial	Human - dermal	Long term, local effects	DNEL	1,5	mg/kg	
Industrial / commercial	Human - inhalation	Long term, local effects	DNEL	210	mg/m3	
Industrial / commercial	Human - inhalation	Long term, systemic effects	DNEL	210	mg/m3	
Industrial / commercial	Human - dermal	Long term, systemic effects	DNEL	13,67	mg/kg	

Methacrylic acid Area of application	Exposure route /	Effect on health	alth Descripto		Unit	Note
	Environmental		r	Value		11010
	compartment					
	Environment - freshwater		PNEC	0,82	mg/l	
	Environment - marine		PNEC	0,82	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,82	mg/l	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - soil		PNEC	1,2	mg/kg dry weight	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	6,3	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	6,55	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	2,55	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	88	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	29,6	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	4,25	mg/kg bw/d	

Maleic acid						
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental compartment		r			
	Environment - freshwater		PNEC	0,074	mg/l	
	Environment - periodic release		PNEC	0,744	mg/l	
	Environment - sediment, freshwater		PNEC	0,0624	mg/kg	
	Environment - sewage treatment plant		PNEC	3,33	mg/l	
Workers / employees	Human - dermal	Short term, local effects	DNEL	0,55	mg/cm2	
Workers / employees	Human - dermal	Long term, local effects	DNEL	0,04	mg/cm2	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	58	mg/kg	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	3,3	mg/kg	

#### Rosin



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Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0.005	mg/l	
	Environment - marine		PNEC	0,0005	mg/l	
	Environment - sewage treatment plant		PNEC	1000	mg/l	
	Environment - soil		PNEC	21,4	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	15	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	52,174	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	15	mg/kg bw/d	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	25	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	176,32	mg/m3	

#### 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.

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 374).

Recommended

Protective gloves in butyl rubber (EN 374).

Minimum layer thickness in mm:

0.7

Permeation time (penetration time) in minutes:

> 60

The breakthrough times determined in accordance with EN 374 Part 3 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:

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

Observe wearing time limitations for respiratory protection equipment.

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.

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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 20°C

Colour: According to specification

Odour: Characteristic
Odour threshold: Not determined

pH-value: n.a.

Melting point/freezing point:

Initial boiling point and boiling range:

Flash point:

Evaporation rate:

Not determined

Not determined

11 °C (closed cup)

Not determined

Flammability (solid, gas): n.a.

Lower explosive limit:

Upper explosive limit:

Vapour pressure:

Vapour density (air = 1):

Density:

Not determined

Bulk density: n.a.

Solubility(ies):

Water solubility:

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Not determined

Not determined

Not determined

Vot determined

Not determined

Vot determined

Vot determined

Vot determined

Explosive properties: Product is not explosive. Possible build up of explosive/highly

flammable vapour/air mixture.

Oxidising properties: Not determined

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Surface tension:

Solvents content:

Not determined
Not determined
Not determined
Not determined

#### **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

Exothermic reaction possible with:

Peroxides Oxidizing agents

Bases

Acids

#### 10.4 Conditions to avoid

Heating, open flame, ignition sources

#### 10.5 Incompatible materials

Avoid contact with strong alkalis.

Avoid contact with strong acids.

Avoid contact with strong oxidizing agents.

#### 10.6 Hazardous decomposition products

No decomposition when used as directed.



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### **SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**Possibly more information on health effects, see Section 2.1 (classification).

Techno Repair Adhesive	,					
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
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
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 - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Methyl methacrylate			11.14			<b>N1.</b> 4
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by oral route:	LD50	>6000	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by dermal	LD50	>5000	mg/kg	Rabbit		
route:						
Acute toxicity, by dermal	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	
route:					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	29,8	mg/l	Rat		
Skin corrosion/irritation:				Rabbit		Irritant
Skin corrosion/irritation:						Irritant
Serious eye				Rabbit		Mild irritant
damage/irritation:						
Respiratory or skin						Yes (skin
sensitisation:						contact)
Respiratory or skin				Mouse	OECD 429 (Skin	Sensitising
sensitisation:					Sensitisation - Local	(skin contact)
					Lymph Node Assay)	
Respiratory or skin				Human being		Sensitising
sensitisation:						(skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation	
					Test)	
Carcinogenicity:						Negative
Reproductive toxicity:						Negative
Specific target organ toxicity -						Irritation of the
single exposure (STOT-SE):						respiratory trac
Specific target organ toxicity -	NOAEL	2000	ppm	Rat		
repeated exposure (STOT-						
RE):						
Aspiration hazard:						No indications
						of such an
						effect.



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Symptoms:					breathing
					difficulties,
					respiratory
					distress.
					drowsiness,
					drop in blood
					pressure,
					coughing,
					headaches,
					fatigue,
					mucous
					membrane
					irritation,
					watering eyes,
					mental
					confusion
Specific target organ toxicity -					Irritation of the
single exposure (STOT-SE),					respiratory tract
inhalative:					. ,
Specific target organ toxicity -	NOAEL	1000	ppm	Mouse	14w, 6h/d, 5d/w
repeated exposure (STOT-					
RÉ), inhalat.:					

Methacrylic acid						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1320	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by dermal	LD50	500-1000	mg/kg	Rabbit	•	
route:						
Acute toxicity, by inhalation:	LC50	7,1	mg/l/4h	Rat	OECD 403 (Acute	
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Corrosive
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	(Draize-Test)	Risk of serious
damage/irritation:						damage to
						eyes.
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	

Maleic acid						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1030	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by dermal	LD50	2620	mg/kg	Rabbit	OECD 402 (Acute	
route:					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>720	mg/m3	Rat		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Intensively
damage/irritation:					Eye	irritant
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Sensitising
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation	
					Test)	



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Symptoms:		breathing
' '		difficulties,
		respiratory
		distress, eyes,
		reddened,
		coughing,
		headaches,
		gastrointestinal
		disturbances,
		mucous
		membrane
		irritation,
		nausea and
		vomiting.,
		Oedema of the
		lungs
Specific target organ toxicity -		Target
single exposure (STOT-SE),		organ(s):
inhalative:		respiratory
		organs, May
		cause
		respiratory
		irritation.
		irriation.

Rosin						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2800	mg/kg	Rat		
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rat		
route:						
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye						Mechanical
damage/irritation:						irritation
						possible.
Respiratory or skin				Mouse	OECD 429 (Skin	Negative, Does
sensitisation:					Sensitisation - Local	not conform
					Lymph Node Assay)	with EU
						classification.
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation	
					Test)	
Reproductive toxicity:	NOEL	3000	ppm	Rat	OECD 421	No indications
					(Reproduction/Develop	of such an
					mental Toxicity	effect.
					Screening Test)	
Specific target organ toxicity -	NOAEL	600	mg/kg/d	Rat	OECD 408 (Repeated	
repeated exposure (STOT-					Dose 90-Day Oral	
RE):					Toxicity Study in	
					Rodents)	
Aspiration hazard:						No
Symptoms:						asthmatic
						symptoms,
						headaches,
						gastrointestinal
						disturbances,
						dizziness,
						nausea

Ethoxylated trimethylolpropane triacrylate							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)		
Acute toxicity, by dermal route:	LD50	13200	mg/kg	Rabbit			



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Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Irritant,
damage/irritation:					Eye	Analogous
					Irritation/Corrosion)	conclusion
Respiratory or skin				Mouse	OECD 429 (Skin	Sensitising
sensitisation:					Sensitisation - Local	
					Lymph Node Assay)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Sensitising
sensitisation:					Sensitisation)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation	
					Test)	
Specific target organ toxicity -	NOAEL	250	mg/kg/d	Rat		Analogous
repeated exposure (STOT-						conclusion
RE), oral:						

alpha-alpha-dimethylbenzyl hydroperoxide							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	382	mg/kg	Rat			
Acute toxicity, by dermal route:	LD50	500	mg/kg	Rat			
Acute toxicity, by inhalation:	LC50	220	ppm	Rat		(4h)	

2,6-di-tert-butyl-p-cresol											
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes					
Acute toxicity, by oral route:	LD50	2930	mg/kg	Rat							
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rabbit							
route:											
Skin corrosion/irritation:						Irritant					
Serious eye						Irritant					
damage/irritation:											

### **SECTION 12: Ecological information**

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

Techno Repair Adhesi	ive			,			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to							n.d.a.
daphnia:							
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. Other adverse							n.d.a.
effects:							
Other information:							Does not
							contain any
							organically
							bound
							halogens which
							can contribute
							to the AOX
							value in waste
							water.



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Other information:			DOC-
			elimination
			degree(complex
			ing organic
			substance)>=
			80%/28d: n.a.

Methyl methacrylate Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>79	mg/l	Oncorhynchus	OECD 203	Notes
12.1. Toxioity to fish.	2000	3011	- 13	1119/1	mykiss	(Fish, Acute	
					THYRISS	Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	>79	mg/l	Oncorhynchus	OECD 203	References
12.1. TOXICILY TO HISH.	LC30	3011	719	ilig/i	mykiss	(Fish, Acute	References
					IIIykiss	Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	130	mg/l	Pimephales	OECD 203	
12.1. TOXICITY TO HISH.	LC30	3011	130	ilig/i	promelas	(Fish, Acute	
					promeias	Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL		9,4	mg/l	Brachydanio rerio	OECD 210	
12.1. TOXICILY to IISI1.	NOEC/NOEL		9,4	IIIg/I	Diachydaillo reno		
						(Fish, Early-Life	
						Stage Toxicity	
40.4 T	F050	401-			Dankaia araa	Test)	
12.1. Toxicity to	EC50	48h	69	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
10.4 T. 1.11.1.	NOFONIOFI	04.1			D 1 :	Test)	
12.1. Toxicity to	NOEC/NOEL	21d	37	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
40.4 T : " + 1		701	110			Test)	
12.1. Toxicity to algae:	EC50	72h	>110	mg/l	Pseudokirchnerie	OECD 201	
					lla subcapitata	(Alga, Growth	
						Inhibition Test)	
12.1. Toxicity to algae:	EC50	96h	37	mg/l	Selenastrum	OECD 201	
					capricornutum	(Alga, Growth	
						Inhibition Test)	
12.2. Persistence and		14d	94	%		OECD 301 C	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Modified MITI	
						Test (I))	
12.2. Persistence and		28d	>95	%		OECD 302 B	Readily
degradability:						(Inherent	biodegradable
						Biodegradability -	
						Zahn-	
						Wellens/EMPA	
						Test)	
12.3. Bioaccumulative	Log Pow		1,38				A notable
potential:							biological
							accumulation
							potential is no
							to be expected
	<u></u>						(LogPow 1-3).
12.3. Bioaccumulative	Log Pow		1,32-			OECD 107	A notable
potential:			1,38			(Partition	biological
						Coefficient (n-	accumulation
						octanol/water) -	potential is no
						Shake Flask <sup>'</sup>	to be expected
						Method)	(LogPow 1-3).
12.4. Mobility in soil:						,	No indications
							of such an
							effect.
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
	t contract to the contract to	1					



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12.5. Results of PBT				No PBT
and vPvB assessment				substance, No
				vPvB substance
Water solubility:	15,9	g/l		20°C

Methacrylic acid										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.1. Toxicity to fish:	LC50		85	mg/l	Oncorhynchus mykiss					
12.1. Toxicity to daphnia:	EC50		>130	mg/l	Daphnia magna					
12.1. Toxicity to algae:	ErC50		45	mg/l	Pseudokirchnerie Ila subcapitata					

Maleic acid Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	75	mg/l	Pimephales promelas		
12.1. Toxicity to daphnia:	EC50	48h	42,81	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	74,35	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	97	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
Other information:	ThOD		830	mg/g		,	References
Water solubility:			478,8	g/l			20°C

Rosin Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOELR	96h	1	mg/l	Brachydanio rerio	rest method	140103
12.1. Toxicity to daphnia:	LC0	48h	3,8-5,4	mg/l	Braciny dame reme	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	400-410	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	89	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF		<=130				Oncorhyncus mykiss
Toxicity to bacteria:	EC50	3h	>10000	mg/l	activated sludge	DIN EN ISO 11348-2	
Water solubility:			<1	mg/l			20°C

Ethoxylated trimethylolpropane triacrylate											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.2. Persistence and degradability:			58-61	%		OECD 301 B (Ready Biodegradability - Co2 Evolution					
						Test)					

alpha-alpha-dimethylbenzyl hydroperoxide										
Toxicity / effect Endpoint Time Value Unit Organism Test method Notes										

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12.1. Toxicity to fish:	LC50	96h	3,9	mg/l	Oncorhynchus	OECD 203
					mykiss	(Fish, Acute
						Toxicity Test)
12.1. Toxicity to	EC50	48h	18	mg/l	Daphnia magna	OECD 202
daphnia:						(Daphnia sp.
						Acute
						Immobilisation
						Test)
12.1. Toxicity to algae:	ErC50	72h	3,1	mg/l	Pseudokirchnerie	OECD 201
					lla subcapitata	(Alga, Growth
						Inhibition Test)
12.2. Persistence and		28d	3	%		OECD 301 B
degradability:						(Ready
						Biodegradability -
						Co2 Evolution
						Test)

2,6-di-tert-butyl-p-cresol											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:	LC50	96h	0,199	mg/l							
12.1. Toxicity to	EC50	48h	0,31	mg/l							
daphnia:											
12.1. Toxicity to algae:	IC50	72h	0,42	mg/l							
12.2. Persistence and							Not readily				
degradability:							biodegradable				
12.3. Bioaccumulative	BCF		598								
potential:											

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### 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

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

Hardened product:

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.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

#### **SECTION 14: Transport information**

#### **General statements**

14.1. UN number: 1133

#### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1133 ADHESIVES (SPECIAL PROVISION 640D)

3 14.3. Transport hazard class(es): 14.4. Packing group: Ш Classification code: F1 LQ: 5 L

14.5. Environmental hazards: Not applicable D/E

Tunnel restriction code:





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#### Transport by sea (IMDG-code)

14.2. UN proper shipping name:

**ADHESIVES** 

14.3. Transport hazard class(es):314.4. Packing group:IIEmS:F-E, S-DMarine Pollutant:n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

Adhesives

14.3. Transport hazard class(es): 3
14.4. Packing group: II

14.5. Environmental hazards:

Not applicable



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. Transport in bulk according to Annex II of MARPOL and the IBC Code

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:

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): > 55 %

Observe incident regulations.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

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

Revised sections:

n.a.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Employee training in handling dangerous goods 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	Evaluation method used
(EC) No. 1272/2008 (CLP)	
Flam. Liq. 2, H225	Classification based on test data.
Skin Corr. 1A, H314	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Aquatic Chronic 3, H412	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.

H225 Highly flammable liquid and vapour.

H242 Heating may cause a fire.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.





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H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

Flam. Liq. — Flammable liquid

Skin Corr. — Skin corrosion

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Skin Sens. — Skin sensitization

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Skin Irrit. — Skin irritation

Acute Tox. — Acute toxicity - oral

Acute Tox. — Acute toxicity - dermal

Acute Tox. — Acute toxicity - inhalation

Eye Irrit. — Eye irritation

STOT RE — Specific target organ toxicity - repeated exposure

Org. Perox. — Organic peroxide

Aquatic Acute — Hazardous to the aquatic environment - acute

#### Any abbreviations and acronyms used in this document:

AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level
AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

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

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight

CAS Chemical Abstracts Service

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community

(GB)\_

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ECHA European Chemicals Agency EEA European Economic Area EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ERC Environmental Release Categories

ES Exposure scenario

etc. et cetera EU European Union

EWC European Waste Catalogue

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

HGWP Halocarbon Global Warming Potential IARC International Agency for Research on Cancer IATA International Air Transport Association

IBC Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLIDInternational Uniform Chemical Information Database

LC lethal concentration

LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration

LD Lethal Dose of a chemical LD50 Lethal Dose, 50% kill

LDLo Lethal Dose Low

LOAELLowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

NIOSHNational Institute of Occupational Safety and Health (United States of America)

NOAEC No Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level

NOEC No Observed Effect Concentration NOEL No Observed Effect Level ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

org. organic

PAH polycyclic aromatic hydrocarbon PBT persistent, bioaccumulative and toxic

PC Chemical product category
PE Polyethylene

PNEC Predicted No Effect Concentration

POCP Photochemical ozone creation potential

ppm parts per million PROC Process category PTFE Polytetrafluorethylene

REACH Registration, 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)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

(GB)

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SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

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.

These statements were made by:

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