

Trade name: TECHNO COLLE MM partie rose

Version: 9 / DE

Date revised: 06.01.2020

Replaces Version: 8 / DE

Print date: 03.11.2020

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

1.1. Product identifier

TECHNO COLLE MM partie rose

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

Identified Uses

PC1 Adhesives, sealants

1.3. Details of the supplier of the safety data sheet

Address/Supplier

IPC SAS
CS 71821 - 10, Quai Cdt Malbert 29218 BREST - France
T 02-98-43-45-44 - F 02-98-43-22-53 ipc@groupe-ipc.com

1.4. Emergency telephone number

United Kingdom - National Poisons Information Service (Birmingham Centre) City Hospital
Dudley Road B18 7QH Birmingham - 0344 892 0111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Flam. Liq. 2	H225
Skin Corr. 1A	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
STOT SE 3	H335

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Hazard pictograms



Signal word

Danger

Hazard statements

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H225	Highly flammable liquid and vapour.

Precautionary statements

Safety data sheet in accordance with regulation (EC) No 1907/2006

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261.9	Avoid breathing vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 or doctor.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Methacrylic acid; 1-Benzoyl-2-Ethylimidazol; 2-Hydroxyethyl methacrylate; Methyl-methacrylate

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

Hazardous ingredients

Methyl-methacrylate

CAS No.	80-62-6
EINECS no.	201-297-1
Concentration	>= 50 %
Classification (Regulation (EC) No. 1272/2008)	
Flam. Liq. 2	H225
STOT SE 3	H335
Skin Irrit. 2	H315
Skin Sens. 1	H317

Additional remarks:

DSD Directive 67/548/EEC, Annex I, Note D

CLP Regulation (EC) No 1272/2008, Annex VI, Note D

2-Hydroxyethyl methacrylate

CAS No.	868-77-9
EINECS no.	212-782-2
Registration no.	01-2119490169-29
Concentration	>= 25 < 50 %
Classification (Regulation (EC) No. 1272/2008)	
Eye Irrit. 2	H319
Skin Sens. 1	H317
Skin Irrit. 2	H315

Methacrylic acid

CAS No.	79-41-4
EINECS no.	201-204-4
Registration no.	01-2119463884-26
Concentration	>= 10 < 19 %
Classification (Regulation (EC) No. 1272/2008)	
Acute Tox. 4	H312
Acute Tox. 4	H302
Skin Corr. 1A	H314

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 3 H335 >= 1

Additional remarks:

DSD Directive 67/548/EEC, Annex I, Note D

CLP Regulation (EC) No 1272/2008, Annex VI, Note D

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Monobenzoyl Thiourea

CAS No. 614-23-3
Concentration $\geq 1 < 9,6 \%$
Classification (Regulation (EC) No. 1272/2008)
Acute Tox. 4 H302

1-Benzoyl-2-Ethylimidazol

CAS No. 137590-32-0
EINECS no. 415-820-8
Concentration $\geq 1 < 3 \%$
Classification (Regulation (EC) No. 1272/2008)
Eye Dam. 1 H318
Skin Sens. 1 H317
Aquatic Chronic 3 H412

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. When vapours are intensively inhaled, seek medical help immediately.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry powder, Carbon dioxide, Foam

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

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5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case the product spills into sewage waters, immediately inform the authorities.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Do not pick up with the help of saw-dust or other combustible substances. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). Observe the usual precautions for handling chemicals. Avoid impact, friction and electrostatic loading; risk of ignition!. Keep container tightly closed.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take precautionary measures against static discharge. Avoid impact and friction. Keep away from combustible material.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

Hints on storage assembly

Do not store with strong oxidizing agents.

Storage classes

Storage class according to TRGS 510 3 Flammable liquid

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

Exposure limit values

Methyl-methacrylate

List	TRGS 900			
Type	AGW			
Value	210	mg/m ³	50	ppm(V)

Maximum limit value: 2(l); Pregnancy group: Y; Status: 28.10.2014; Remarks: DFG, EU

Methacrylic acid

Value	180	mg/m ³	50	ppm(V)
Short term exposure limit	360	mg/m ³	100	ppm(V)

Other information

There are not known any further control parameters.

8.2. Exposure controls

General protective and hygiene measures

Do not smoke during work time. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

Use NIOSH approved respirator if there is potential to exceed exposure limits. If this material is handled at elevated temperatures, or under mist-forming conditions without engineering controls, a NIOSH approved respirator must be used.

Hand protection

Chemical resistant gloves			
Use	Short-term hand contact		
Appropriate Material	nitrile		
Material thickness	>=	0,4	mm
Breakthrough time	>	480	min

Eye protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	liquid
Colour	pink
Odour	characteristic
Odour threshold	
Remarks	not determined
pH value	
Remarks	not determined
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Initial boiling point and boiling range	

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Value	101			°C
Flash point				
Value	10			°C
Evaporation rate (ether = 1) :				
Remarks	not determined			
Flammability (solid, gas)				
not determined				
Upper/lower flammability or explosive limits				
Remarks	not determined			
Vapour pressure				
Value	47			hPa
Temperature	20		°C	
Vapour density				
Remarks	not determined			
Density				
Value	1			g/cm ³
Temperature	25		°C	
Solubility in water				
Remarks	not determined			
Solubility(ies)				
Remarks	not determined			
Partition coefficient: n-octanol/water				
Remarks	not determined			
Ignition temperature				
Remarks	not determined			
Decomposition temperature				
Remarks	not determined			
Viscosity				
dynamic				
Value	4000	to	6000	mPa.s
Temperature	25		°C	
kinematic				
Value	4000	to	6000	mm ² /s
Temperature	23		°C	
Explosive properties				
evaluation	not determined			
Oxidising properties				
Remarks	not determined			

9.2. Other information**Other information**

None known

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

No hazardous reactions when stored and handled according to prescribed instructions.

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10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**ATE 5.689,65 mg/kg
52

Method calculated value according to GHS (e.g see UN GHS)

Acute oral toxicity (Components)**Methacrylic acid**Species rat
LD50 1320 mg/kg**Methyl-methacrylate**Species rat
LD50 7872 mg/kg**Acute dermal toxicity**

ATE 5.000 mg/kg

Method calculated value according to GHS (e.g see UN GHS)

Acute dermal toxicity (Components)**Methacrylic acid**Species rabbit
LD50 500 to 1000 mg/kg**Methyl-methacrylate**Species rabbit
LC50 > 5000 mg/kg**Acute inhalational toxicity**

Remarks not determined

Acute inhalative toxicity (Components)**Methacrylic acid**Species rat
LC50 7,1 mg/l
Duration of exposure 4 h**Methyl-methacrylate**Species rat
LC50 78000 mg/m³
Duration of exposure 4 h**Skin corrosion/irritation**

Remarks not determined

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Serious eye damage/irritation

Remarks not determined

Sensitization

Remarks not determined

Sensitization (Components)**Methacrylic acid**Route of exposure dermal
Species guinea pig
evaluation non-sensitizing**Methyl-methacrylate**

evaluation sensitizing

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

Remarks not determined

Reproductive toxicity

Remarks not determined

Carcinogenicity

Remarks not determined

Specific Target Organ Toxicity (STOT)

Remarks not determined

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

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

not determined

Fish toxicity (Components)**Methacrylic acid**Species rainbow trout (*Oncorhynchus mykiss*)
LC50 85 mg/l
Duration of exposure 96 h**Methyl-methacrylate**Species Fathead minnow (*Pimephales promelas*)
LC50 125,5 to 275,0 mg/l
Duration of exposure 96 h**Daphnia toxicity (Components)****Methacrylic acid**Species *Daphnia magna*
EC50 > 130 mg/l
Duration of exposure 48 h**Methacrylic acid**Species *Daphnia magna*
NOEC 53 mg/l

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Methyl-methacrylate

Species	Daphnia magna	
EC50	720	mg/l

Algae toxicity (Components)

Methacrylic acid

Species	Selenastrum capricornutum	
EC50	45	mg/l
Duration of exposure	72	h

Methacrylic acid

Species	Selenastrum capricornutum	
NOEC	8,2	mg/l
Duration of exposure	72	h

Methyl-methacrylate

Species	Algae	
EC50	170	mg/l
Duration of exposure	96	h

12.2. Persistence and degradability

General information

not determined

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

12.6. Other adverse effects

General information

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code	08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances
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Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

EWC waste code	15 01 10*	packaging containing residues of or contaminated by dangerous substances
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Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal

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company.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
EmS		F-E, S-D	
14.1. UN number	1133	1133	1133
14.2. UN proper shipping name	ADHESIVES	ADHESIVES	ADHESIVES
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	III	III	III
Remarks	The product is viscous; packing group III in containers with not more than 450 ltrs.	The product is viscous; packing group III in containers with not more than 450 ltrs.	The product is viscous; packing group III in containers with not more than 450 ltrs.
Limited Quantity	5 l		
Transport category	3		

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class (Germany) WGK 2

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

Verordnung brennbare Flüssigkeiten (VbF)

VbF: A I

VOC

VOC (EU) 0 % 0 g/l

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H225 Highly flammable liquid and vapour.

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H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Department issuing safety data sheet

Department product safety

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

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

1.1. Product identifier

TECHNO COLLE MM partie verte

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

Identified Uses

PC1

Adhesives, sealants

1.3. Details of the supplier of the safety data sheet

Address/Supplier

IPC SAS
CS 71821 - 10, Quai Cdt Malbert 29218 BREST - France
T 02-98-43-45-44 - F 02-98-43-22-53 ipc@groupe-ipc.com

1.4. Emergency telephone number

United Kingdom - National Poisons Information Service (Birmingham Centre) City Hospital
Dudley Road B18 7QH Birmingham - 0344 892 0111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H335
Aquatic Chronic 3	H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Hazard pictograms



Signal word

Danger

Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H225	Highly flammable liquid and vapour.

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H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261.9 Avoid breathing vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains 2-Hydroxyethyl methacrylate; Methyl-methacrylate; 1,4-Dihydroxybenzene; Cumene Hydroperoxide

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

Hazardous ingredients

Methyl-methacrylate

CAS No. 80-62-6
EINECS no. 201-297-1
Concentration >= 50 %
Classification (Regulation (EC) No. 1272/2008)
Flam. Liq. 2 H225
STOT SE 3 H335
Skin Irrit. 2 H315
Skin Sens. 1 H317

Additional remarks:

DSD Directive 67/548/EEC, Annex I, Note D
CLP Regulation (EC) No 1272/2008, Annex VI, Note D

2-Hydroxyethyl methacrylate

CAS No. 868-77-9
EINECS no. 212-782-2
Registration no. 01-2119490169-29
Concentration >= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)
Eye Irrit. 2 H319
Skin Sens. 1 H317
Skin Irrit. 2 H315

Cumene Hydroperoxide

CAS No. 80-15-9
EINECS no. 201-254-7
Concentration >= 1 < 2,5 %
Classification (Regulation (EC) No. 1272/2008)
STOT RE 2 H373
Skin Corr. 1B H314
Acute Tox. 4 H302
Acute Tox. 4 H312
Acute Tox. 3 H331
Org. Perox. E H242
Aquatic Chronic 2 H411

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Concentration limits (Regulation (EC) No. 1272/2008)

Eye Dam. 1	H318	>= 3 < 10
STOT SE 3	H335	>= 1 < 10
Skin Corr. 1B	H314	>= 10
Eye Irrit. 2	H319	>= 1 < 3
Skin Irrit. 2	H315	>= 3 < 10

Propylidynetrimehyl trimethacrylate

CAS No.	3290-92-4
EINECS no.	221-950-4
Registration no.	01-2119542176-41
Concentration	>= 1 < 2,5 %
Classification (Regulation (EC) No. 1272/2008)	Aquatic Chronic 2 H411

1,4-Dihydroxybenzene

CAS No.	123-31-9
EINECS no.	204-617-8
Registration no.	01-2119524016-51
Concentration	>= 0,1 < 1 %
Classification (Regulation (EC) No. 1272/2008)	Aquatic Acute 1 H400
	Skin Sens. 1 H317
	Eye Dam. 1 H318
	Carc. 2 H351
	Acute Tox. 4 H302
	Muta. 2 H341

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1	M = 10
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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

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Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry powder, Carbon dioxide, Foam

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case the product spills into sewage waters, immediately inform the authorities.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Do not pick up with the help of saw-dust or other combustible substances. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid impact, friction and electro-static loading; risk of ignition!. Keep container tightly closed. Observe the usual precautions for handling chemicals.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take precautionary measures against static discharge. Avoid impact and friction. Keep away from combustible material.

7.2. Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

Hints on storage assembly

Do not store with strong oxidizing agents.

Storage classes

Storage class according to TRGS 510 3 Flammable liquid

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

1,4-Dihydroxybenzene

List	TRGS 900
Type	MAK
Value	2 mg/m ³
Maximum limit value: =1=; Status: 28.10.2014; Remarks: DFG	

Methyl-methacrylate

List	TRGS 900
Type	AGW
Value	210 mg/m ³ 50 ppm(V)
Maximum limit value: 2(I); Pregnancy group: Y; Status: 28.10.2014; Remarks: DFG, EU	

Other information

There are not known any further control parameters.

8.2. Exposure controls

General protective and hygiene measures

Do not smoke during work time. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Short term: filter apparatus, Filter A

Hand protection

Chemical resistant gloves	
Use	Short-term hand contact
Appropriate Material	nitrile
Material thickness	>= 0,4 mm
Breakthrough time	> 480 min

Eye protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Form	liquid			
Colour	green			
Odour	characteristic			
Odour threshold				
Remarks	not determined			
pH value				
Remarks	not determined			
Melting point				
Remarks	not determined			
Freezing point				
Remarks	not determined			
Initial boiling point and boiling range				
Value	101	°C		
Flash point				
Value	10	°C		
Evaporation rate (ether = 1) :				
Remarks	not determined			
Flammability (solid, gas)				
not determined				
Upper/lower flammability or explosive limits				
Remarks	not determined			
Vapour pressure				
Value	47	hPa		
Temperature	20	°C		
Vapour density				
Remarks	not determined			
Density				
Value	1	g/cm ³		
Temperature	25	°C		
Solubility in water				
Remarks	not determined			
Solubility(ies)				
Remarks	not determined			
Partition coefficient: n-octanol/water				
Remarks	not determined			
Ignition temperature				
Remarks	not determined			
Decomposition temperature				
Remarks	not determined			
Viscosity				
dynamic				
Value	4000	to	6000	mPa.s
Temperature	25	°C		
kinematic				
Value	4000	to	6000	mm ² /s

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Temperature 23 °C

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

9.2. Other information

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE > 10.000 mg/kg
Method calculated value according to GHS (e.g see UN GHS)

Acute oral toxicity (Components)

Methyl-methacrylate

Species rat
LD50 7872 mg/kg

Cumene Hydroperoxide

Species rat
LD50 382 mg/kg
Source GESTIS-Stoffdatenbank

Acute dermal toxicity

ATE > 10.000 mg/kg
Method calculated value according to GHS (e.g see UN GHS)

Acute dermal toxicity (Components)

Methyl-methacrylate

Species rabbit
LC50 > 5000 mg/kg

Cumene Hydroperoxide

Species rat

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LD50 500 mg/kg
Source GESTIS-Stoffdatenbank

Acute inhalational toxicity

ATE > 100 mg/l
Administration/Form Vapors
Method calculated value according to GHS (e.g see UN GHS)
ATE > 20 mg/l
Administration/Form Dust/Mist
Method calculated value according to GHS (e.g see UN GHS)

Acute inhalative toxicity (Components)

Methyl-methacrylate

Species rat
LC50 78000 mg/m³
Duration of exposure 4 h

Cumene Hydroperoxide

Species rat
LC50 1,37 mg/l
Duration of exposure 4 h
Source GESTIS-Stoffdatenbank

Skin corrosion/irritation

Remarks not determined

Serious eye damage/irritation

Remarks not determined

Sensitization

Remarks not determined

Sensitization (Components)

Methyl-methacrylate

evaluation sensitizing

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

Remarks not determined

Reproductive toxicity

Remarks not determined

Carcinogenicity

Remarks not determined

Specific Target Organ Toxicity (STOT)

Remarks not determined

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

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Fish toxicity (Components)

Methyl-methacrylate

Species	Fathead minnow (<i>Pimephales promelas</i>)
LC50	125,5 to 275,0 mg/l
Duration of exposure	96 h

Daphnia toxicity (Components)

Methyl-methacrylate

Species	Daphnia magna
EC50	720 mg/l

Algae toxicity (Components)

Methyl-methacrylate

Species	Algae
EC50	170 mg/l
Duration of exposure	96 h

12.2. Persistence and degradability

General information

not determined

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

12.6. Other adverse effects

General information

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

EWC waste code 15 01 10* packaging containing residues of or contaminated by dangerous substances

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

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SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
EmS		F-E, S-D	
14.1. UN number	1133	1133	1133
14.2. UN proper shipping name	ADHESIVES	ADHESIVES	ADHESIVES
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	III	III	III
Remarks	The product is viscous; packing group III in containers with not more than 450 ltrs.	The product is viscous; packing group III in containers with not more than 450 ltrs.	The product is viscous; packing group III in containers with not more than 450 ltrs.
Limited Quantity	5 l		
Transport category	3		
14.5. Environmental hazards	-	no	-

SECTION 15: Regulatory information

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

Water Hazard Class (Germany)

Water Hazard Class WGK 2

(Germany)

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

Verordnung brennbare Flüssigkeiten (VbF)

VbF: A I

VOC

VOC (EU) 0 % 0 g/l

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

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SECTION 16: Other information

Hazard statements listed in Chapter 3

H225	Highly flammable liquid and vapour.
H242	Heating may cause a fire.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure:
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Org. Perox. E	Organic peroxide, Type E
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Department issuing safety data sheet

Department product safety

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.