

Marston Domsel GmbH
53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 1 / 10

1 Identification of the substance / preparation and of the company

1.1 Product identifier

Clearbond Part A
Article number MMB.C.S50

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

1.2.1 Relevant uses

Adhesive

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Marston Domsel GmbH

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Homepage www.marston-domsel.de
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1.4 Emergency phone

Advisory body +49 (0) 89-19240 (24h) (english)

2 Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



Signal word

DANGER

Flam. Liq. 2 - H225 Highly flammable liquid and vapour.
Skin Sens. 1 - H317 May cause an allergic skin reaction.
Skin Irrit. 2 - H315 Causes skin irritation.
Eye Irrit. 2 - H319 Causes serious eye irritation.
STOT SE 3 - H335 May cause respiratory irritation.
Classification according to conversion table Annex VII 1272/2008/EC

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

Hazard symbols



Highly flammable

Irritant

R-phrases

R 11: Highly flammable.
R 36/37/38: Irritating to eyes, respiratory system and skin.
R 43: May cause sensitisation by skin contact.

The product is classified and required to be labelled in accordance with EC-Directives

Marston Domsel GmbH

53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 2 / 10

2.2 Label elements**Labelling according to Regulation 67/548/EEC or 1999/45/EC****Hazard symbols**

Highly flammable



Irritant

Contains:Methyl methacrylate
2-Hydroxyethyl methacrylate**R-phrases**R 11: Highly flammable.
R 36/37/38: Irritating to eyes, respiratory system and skin.
R 43: May cause sensitisation by skin contact.**S-phrases**S 2: Keep out of the reach of children.
S 16: Keep away from sources of ignition - No smoking.
S 24: Avoid contact with skin.
S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S 51: Use only in well-ventilated areas.
S 46: If swallowed, seek medical advice immediately and show this container or label.**Special labelling**

not applicable

2.3 Other hazards**Other hazards**

No particular hazards known.

3 Composition / Information on ingredients**3.1 Product-type:**

The product in question is a mixture.

Range [%]	Substance
20 - <40	Methyl methacrylate
	CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6
	GHS/CLP: Flam. Liq. 2 - H225 - STOT SE 3 - H335 - Skin Irrit. 2 - H315 - Skin Sens. 1 - H317
	EEC: F-Xi, R 11-37/38-43
20 - <40	2-Phenoxyethyl methacrylate
	CAS: 10595-06-9, EINECS/ELINCS: 234-201-1
	GHS/CLP:
	EEC: Xi, R 36/38
1 - <20	Tetrahydrofurfuryl-2-methacrylate
	CAS: 2455-24-5, EINECS/ELINCS: 219-529-5
	GHS/CLP:
	EEC: Xi, R 36/37/38
1 - <20	2-Hydroxyethyl methacrylate
	CAS: 868-77-9, EINECS/ELINCS: 212-782-2, EU-INDEX: 607-124-00-X
	GHS/CLP: Eye Irrit. 2 - H319 - Skin Irrit. 2 - H315 - Skin Sens. 1 - H317
	EEC: Xi, R 36/38-43
1 - <5	Methacrylic acid
	CAS: 79-41-4, EINECS/ELINCS: 201-204-4, EU-INDEX: 607-088-00-5
	GHS/CLP: Acute Tox. 4 - H312 - Acute Tox. 4 - H302 - Skin Corr. 1A - H314 - STOT SE 3 - H335
	EEC: C, R 21/22-35
0,1 - <1	Cumene hydroperoxide
	CAS: 80-15-9, EINECS/ELINCS: 201-254-7, EU-INDEX: 617-002-00-8
	GHS/CLP: Org. Perox. E - H242 - Acute Tox. 3 - H331 - Acute Tox. 4 - H302 H312 - STOT RE 2 - H373 - Skin Corr. 1B - H314 - Aquatic Chronic 2 - H411
	EEC: O-T-N, R 7-21/22-23-48/20/22-34-51/53

Comment on component partsSubstances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For the wording of the listed risk phrases refer to section 16.

Marston Domsel GmbH

53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 3 / 10

4 First aid measures

4.1 Description of first aid measures

General information	Remove contaminated soaked clothing immediately and dispose of safely.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

No informations available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Carbon dioxide. Water spray jet. Dry powder. Foam.
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Extinguishing media that must not be used	Full water jet.
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5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.
Cool containers at risk with water spray jet.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventillation.
High risk of slipping due to leakage/spillage of product.
Use personal protective clothing.

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.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (e.g. sand).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See section 8+13

Marston Domsel GmbH

53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 4 / 10

7 Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Vacuuming in situ required.

Vapours can form an explosive mixture with air.

Keep away from all sources of ignition - Refrain from smoking.

Ignitable mixtures can be formed in the empty container.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store together with oxidizing agents.

Keep container tightly closed.

Keep container in a well-ventilated place.

Protect from heat/overheating.

7.3 Specific end use(s)

See product use, section 1.2

8 Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
20 - <40	Methyl methacrylate
	CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6
	Long-term exposure: 50 ppm, 208 mg/m ³
	Short-term exposure (15-minute): 100 ppm, 416 mg/m ³
1 - <5	Methacrylic acid
	CAS: 79-41-4, EINECS/ELINCS: 201-204-4, EU-INDEX: 607-088-00-5
	Long-term exposure: 20 ppm, 72 mg/m ³
	Short-term exposure (15-minute): 40 ppm, 143 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Range [%]	Substance / EC LIMIT VALUES
20 - <40	Methyl methacrylate
	CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6
	Eight hours: 50 ppm
	Short-term (15-minute): 100 ppm

Marston Domsel GmbH
53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 5 / 10

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact Butyl rubber, >480 min (EN 374). In splash contact Butyl rubber, >120 min (EN 374).
Skin protection	Light protective clothing.
Other	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Do not inhale vapours. Avoid contact with eyes and skin. Remove contaminated soaked clothing immediately and dispose of safely. Do not eat, drink, smoke or take drugs at work. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter AX.
Thermal hazards	No informations available.
Delimitation and monitoring of the environmental exposition	not determined

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	viscous liquid
Color	not determined
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	15
Flammability [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not determined
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature	not determined

9.2 Other information

No informations available.

Marston Domsel GmbH
53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 6 / 10

10 Stability and reactivity

10.1 Reactivity

See section 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong alkalis and oxidizing agents.

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

Reactions with strong acids.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

See section 7

10.6 Hazardous decomposition products

Flammable gases/vapours.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
0,1 - <1	Cumene hydroperoxide, CAS: 80-15-9
	LC50, inhalative, Rat: 220 ppm 4h IUCLID.
	LD50, oral, Rat: 382 mg/kg IUCLID.
1 - <20	2-Hydroxyethyl methacrylate, CAS: 868-77-9
	LD50, dermal, Rabbit: > 3000 mg/kg (IUCLID).
	LD50, oral, Rat: 5564 mg/kg (IUCLID).
1 - <5	Methacrylic acid, CAS: 79-41-4
	LD50, oral, Rat: 1060 mg/kg.
	LD50, dermal, Rabbit: 500 - 1000 mg/kg.
	LC50, inhalative, Rat: 7,1 mg/l 4h.
20 - <40	Methyl methacrylate, CAS: 80-62-6
	LD50, oral, Rat: 7872 mg/kg.
	LD50, dermal, Rabbit: > 5000 mg/kg.
	LC50, inhalative, Rat: 78000 mg/m ³ 4h.

Serious eye damage/irritation not determined

Skin corrosion/irritation not determined

Respiratory or skin sensitisation not determined

Specific target organ toxicity — single exposure not determined

Specific target organ toxicity — repeated exposure not determined

Mutagenicity not determined

Reproduction toxicity not determined

Carcinogenicity not determined

General remarks

Toxicological data of complete product are not available.

The product was classified on the basis of the calculation procedure of the preparation directive.

Marston Domsel GmbH
53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 7 / 10

12 Ecological information

12.1 Toxicity

Range [%]	Substance
0,1 - <1	Cumene hydroperoxide, CAS: 80-15-9
	LC50, (96h), Oncorhynchus mykiss: 3,9 mg/l. M=1
	EC50, (24h), Daphnia magna: 7 mg/l. M=1
1 - <20	2-Hydroxyethyl methacrylate, CAS: 868-77-9
	LC50, (96h), Pimephales promelas: 227 mg/L (IUCLID).
	EC50, (96h), Pimephales promelas: 227 mg/L (IUCLID).
1 - <5	Methacrylic acid, CAS: 79-41-4
	EC50, (24h), Daphnia magna: > 100 - 180 mg/l.
	EC50, (96h), Algae: 0,59 mg/l.
20 - <40	Methyl methacrylate, CAS: 80-62-6
	LC50, (96h), fish: 191 mg/l.
	EC50, (48h), Daphnia magna: 69 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

No informations available.

12.4 Mobility in soil

No informations available.

12.5 Results of PBT and vPvB assessment

No informations available.

12.6 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment or into the drainage.
No classification on the basis of the calculation procedure of the preparation directive.

13 Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 080409*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110*

Marston Domsel GmbH
53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 8 / 10

14 Transport information

14.1 UN number

See section 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID UN 1133 ADHESIVES 3 II

- Classification Code F1

- Label



- ADR LQ 5 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (D/E)

Inland navigation (ADN)

UN 1133 ADHESIVES 3 II

- Classification Code F1

- Label



Marine transport in accordance with IMDG

UN 1133 Adhesives 3 II

- EMS

F-E, S-D

- Label



- IMDG LQ

5 I

Air transport in accordance with IATA UN 1133 Adhesives 3 II

- Label



14.3 Transport hazard class(es)

See section 14.2 in accordance with UN shipping name

14.4 Packing group

See section 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See section 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under section 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No informations available.

15 Regulatory information

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

EEC-REGULATIONS

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS

DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2012).

NATIONAL REGULATIONS (GB):

EH40/2005 Workplace exposure limits with amendments October 2007.
CHIP 3/ CHIP 4

15.2 Chemical safety assessment

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

Marston Domsel GmbH

53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 9 / 10

16 Other informations

16.1 R-phrases (section 03)

R 11: Highly flammable.
 R 37/38: Irritating to respiratory system and skin.
 R 43: May cause sensitisation by skin contact.
 R 36/38: Irritating to eyes and skin.
 R 36/37/38: Irritating to eyes, respiratory system and skin.
 R 35: Causes severe burns.
 R 21/22: Harmful in contact with skin and if swallowed.
 R 7: May cause fire.
 R 23: Toxic by inhalation.
 R 48/20/22: Harmful - danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
 R 34: Causes burns.
 R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.2 Hazard statements (section 03)

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

16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 TLV®/TWA = Threshold limit value – time-weighted average
 TLV®/STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

Marston Domsel GmbH
53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01 Page 10 / 10

16.4 Other informations

Observe employment restrictions for people	yes
VOC (1999/13/CE)	not determined
Customs Tariff	not determined
Modified position	none

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53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 1 / 9

1 Identification of the substance / preparation and of the company

1.1 Product identifier

Clearbond Part B
Article number MMB.C.S50

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

1.2.1 Relevant uses

Adhesive

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Marston Domsel GmbH

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53909 Zülpich / GERMANY
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Technical information

info@marston-domsel.de

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency phone

Advisory body

+49 (0) 89-19240 (24h) (english)

2 Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



Signal word

WARNING

Skin Sens. 1 - H317 May cause an allergic skin reaction.

Skin Irrit. 2 - H315 Causes skin irritation.

Eye Irrit. 2 - H319 Causes serious eye irritation.

STOT SE 3 - H335 May cause respiratory irritation.

Classification according to conversion table Annex VII 1272/2008/EC

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

Hazard symbols



Irritant

R-phrases

R 36/37/38: Irritating to eyes, respiratory system and skin.

R 43: May cause sensitisation by skin contact.

The product is classified and required to be labelled in accordance with EC-Directives

Marston Domsel GmbH
53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 2 / 9

2.2 Label elements

Labelling according to Regulation 67/548/EEC or 1999/45/EC

Hazard symbols



Irritant

Contains:

Methyl methacrylate

R-phrases

R 36/37/38: Irritating to eyes, respiratory system and skin.
R 43: May cause sensitisation by skin contact.

S-phrases

S 2: Keep out of the reach of children.
S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37: Wear suitable protective clothing and gloves.
S 46: If swallowed, seek medical advice immediately and show this container or label.

Special labelling

none

2.3 Other hazards

Other hazards

No particular hazards known.

3 Composition / Information on ingredients

3.1 Product-type:

The product in question is a mixture.

Range [%]	Substance
40 - <60	Benzyl methacrylate
	CAS: 2495-37-6, EINECS/ELINCS: 219-674-4, EU-INDEX: 607-134-00-4
	GHS/CLP: Eye Irrit. 2 - H319 - Skin Irrit. 2 - H315 - STOT SE 3 - H335
	EEC: Xi, R 36/37/38
1 - <20	exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl methacrylate
	CAS: 7534-94-3, EINECS/ELINCS: 231-403-1, EU-INDEX: 607-134-00-4
	GHS/CLP: Eye Irrit. 2 - H319 - Skin Irrit. 2 - H315 - STOT SE 3 - H335
	EEC: Xi, R 36/37/38
1 - <5	Methyl methacrylate
	CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6
	GHS/CLP: Flam. Liq. 2 - H225 - STOT SE 3 - H335 - Skin Irrit. 2 - H315 - Skin Sens. 1 - H317
	EEC: F-Xi, R 11-37/38-43
0,1 - <1	Trimethylenediamine
	CAS: 109-76-2, EINECS/ELINCS: 203-702-7
	GHS/CLP: Flam. Liq. 3 - H226 - Acute Tox. 2 - H310 - Acute Tox. 4 - H302 - H314
	EEC: T-C, R 10-24-35-22-52/53

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

General information

Change soaked clothing.

Inhalation

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

Skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion

Consult a doctor immediately.
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.

Marston Domsel GmbH
53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 3 / 9

4.2 Most important symptoms and effects, both acute and delayed

No informations available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 Fire-fighting measures**5.1 Extinguishing media**

Suitable extinguishing media Carbon dioxide.
Water spray jet.
Dry powder.
Foam.

Extinguishing media that must not
be used Full water jet.

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.

Fire residues and contaminated firefighting water must be disposed of in accordance within
the local regulations.

6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Keep away from all sources of ignition.
High risk of slipping due to leakage/spillage of product.
Use personal protective equipment (protective gloves).
Ensure adequate ventilation.

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.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous
earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See section 8+13

7 Handling and storage**7.1 Precautions for safe handling**

Use only in well-ventilated areas.
No special measures necessary if used correctly.
Keep away from sources of ignition - refrain from smoking.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Do not store together with oxidizing agents.
Keep container tightly closed.
Keep container in a well-ventilated place.
Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, section 1.2

8 Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
1 - <5	Methyl methacrylate
	CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6
	Long-term exposure: 50 ppm, 208 mg/m ³
	Short-term exposure (15-minute): 100 ppm, 416 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Range [%]	Substance / EC LIMIT VALUES
1 - <5	Methyl methacrylate
	CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6
	Eight hours: 50 ppm
	Short-term (15-minute): 100 ppm

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact Nitrile rubber, >480 min (EN 374). In splash contact Nitrile rubber, >480 min (EN 374).
Skin protection	light protective clothing
Other	Avoid contact with eyes and skin. Do not inhale vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Remove soiled or soaked clothing. Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work. Use barrier skin cream.
Respiratory protection	Breathing apparatus in the event of high concentrations.
Thermal hazards	No informations available.
Delimitation and monitoring of the environmental exposition	See section 6+7.

Marston Domsel GmbH
53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 5 / 9

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	not determined
Flammability [°C]	not determined
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	virtually insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature	not determined

9.2 Other information

none

10 Stability and reactivity

10.1 Reactivity

See section 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.
Reactions with reducing agents.

10.4 Conditions to avoid

See section 7.2.
Strong heating.

10.5 Incompatible materials

See section 7

10.6 Hazardous decomposition products

No hazardous decomposition products known.

Marston Domsel GmbH
 53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011 Version 01 Page 6 / 9

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
40 - <60	Benzyl methacrylate, CAS: 2495-37-6 LD50, oral, Rat: 5000 mg/kg (Lit.)
1 - <5	Methyl methacrylate, CAS: 80-62-6 LD50, oral, Rat: 7872 mg/kg. LD50, dermal, Rabbit: > 5000 mg/kg. LC50, inhalative, Rat: 78000 mg/m³ 4h.
0,1 - <1	Trimethylenediamine, CAS: 109-76-2 LD50, oral, Rat: 700 mg/kg (Lit.). LD50, dermal, Rabbit: 177 mg/kg (Lit.).

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

Toxicological data of complete product are not available.
 The product was classified on the basis of the calculation procedure of the preparation directive.

12 Ecological information

12.1 Toxicity

Range [%]	Substance
40 - <60	Benzyl methacrylate, CAS: 2495-37-6 LC50, (96h), Pimephales promelas: 4,7 mg/l (Lit.).
1 - <5	Methyl methacrylate, CAS: 80-62-6 LC50, (96h), fish: 191 mg/l. EC50, (48h), Daphnia magna: 69 mg/l.
0,1 - <1	Trimethylenediamine, CAS: 109-76-2 LC50, (96h), Pimephales promelas: 1190 mg/l (Lit.). EC50, (48h), Daphnia magna: 27 mg/l (Lit.).

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

No informations available.

12.4 Mobility in soil

No informations available.

12.5 Results of PBT and vPvB assessment

No informations available.

Marston Domsel GmbH
53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 7 / 9

12.6 Other adverse effects

None known.

13 Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 080409*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110*

14 Transport information

14.1 UN number

See section 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

See section 14.2 in accordance with UN shipping name

14.4 Packing group

See section 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See section 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under section 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

Marston Domsel GmbH

53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 8 / 9

15 Regulatory information

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

EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2012).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4

15.2 Chemical safety assessment

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

16 Other informations

16.1 R-phrases (section 03)

R 11: Highly flammable.
 R 37/38: Irritating to respiratory system and skin.
 R 43: May cause sensitisation by skin contact.
 R 10: Flammable.
 R 24: Toxic in contact with skin.
 R 35: Causes severe burns.
 R 22: Harmful if swallowed.
 R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R 36/37/38: Irritating to eyes, respiratory system and skin.

16.2 Hazard statements (section 03)

H225 Highly flammable liquid and vapour.
 H335 May cause respiratory irritation.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H226 Flammable liquid and vapour.
 H310 Fatal in contact with skin.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H319 Causes serious eye irritation.

16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 TLV®/TWA = Threshold limit value – time-weighted average
 TLV®STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

Marston Domsel GmbH
53909 Zülpich

Created: 19.01.2012, Revision 14.04.2011

Version 01

Page 9 / 9

16.4 Other informations

Observe employment restrictions for people yes

VOC (1999/13/CE) not determined

Customs Tariff not determined

Modified position none

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