

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MD-Megabond 2000 1:1 Part A**

Revision date: 21.02.2023

Product code: MMB

Page 1 of 13

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

MD-Megabond 2000 1:1 Part A

UFI: P2RV-T9QE-7009-XS91

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

Adhesives and sealants

**1.3. Details of the supplier of the safety data sheet**

Company name:	Marston-Domsel GmbH	
Street:	Bergheimer Str. 15	
Place:	53909 Zülpich	
Telephone:	+49 (0) 22 52 94 15 - 0	Telefax: +49 (0) 22 52 17 44
e-mail:	info@marston-domsel.de	
Contact person:	Qualitätsmanagement	
e-mail:	QM@marston-domsel.de	
Internet:	www.marston-domsel.de	

**1.4. Emergency telephone number:**

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****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  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate  
methacrylic acid; 2-methylpropenoic acid  
p-toluene sulfonyl chloride  
alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide

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

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MD-Megabond 2000 1:1 Part A**

Revision date: 21.02.2023

Product code: MMB

Page 2 of 13

**Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

**2.3. Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.  
People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

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

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	Classification (Regulation (EC) No 1272/2008)	
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	45 - 55 %
	201-297-1	607-035-00-6
	01-2119452498-28	
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335	
82339-26-2	Methacrylated Aliphatic Urethane Oligomer	1 - < 10 %
	Skin Irrit. 2, Eye Irrit. 2; H315 H319	
79-41-4	methacrylic acid; 2-methylpropenoic acid	5 - < 10 %
	201-204-4	607-088-00-5
	01-2119463884-26	
	Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, STOT SE 3; H311 H332 H302 H314 H318 H335	
98-59-9	p-toluene sulfonyl chloride	1 - < 3 %
	202-684-8	01-2119971273-36
	Met. Corr. 1, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1A; H290 H315 H318 H317	
80-15-9	alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide	1 - < 5 %
	201-254-7	617-002-00-8
	01-2119475796-19	
	Org. Perox. E, Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, STOT SE 3, STOT RE 2, Aquatic Chronic 2; H242 H331 H312 H302 H314 H318 H335 H373 H411	
128-37-0	2,6-di-tert-butyl-p-cresol	1 - < 5 %
	204-881-4	01-2119565113-46
	Aquatic Chronic 1; H410	

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

**MD-Megabond 2000 1:1 Part A**

Revision date: 21.02.2023

Product code: MMB

Page 3 of 13

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

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
79-41-4	201-204-4	methacrylic acid; 2-methylpropenoic acid	5 - < 10 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: LD50 = 1320 mg/kg Eye Dam. 1; H318: >= 3 - 100 Eye Irrit. 2; H319: >= 1 - < 3 STOT SE 3; H335: >= 1 - 100	
98-59-9	202-684-8	p-toluene sulfonyl chloride	1 - < 3 %
		oral: LD50 = 4680 mg/kg	
80-15-9	201-254-7	alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide	1 - < 5 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: LD50 = 382 mg/kg Skin Corr. 1B; H314: >= 10 - 100 Skin Irrit. 2; H315: >= 3 - < 10 Eye Dam. 1; H318: >= 3 - < 10 Eye Irrit. 2; H319: >= 1 - < 3 STOT SE 3; H335: >= 1 - 100	
128-37-0	204-881-4	2,6-di-tert-butyl-p-cresol	1 - < 5 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2930 mg/kg Aquatic Chronic 1; H410: M=1	

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

When in doubt or if symptoms are observed, get medical advice. Take off immediately all contaminated clothing and wash it before reuse.

**After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice. Remove casualty to fresh air and keep warm and at rest. If unconscious but breathing normally, place in recovery position and seek medical advice. If experiencing respiratory symptoms: Call a doctor.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. Take off contaminated clothing and wash it before reuse. Gently wash with plenty of soap and water. In case of skin reactions, consult a physician.

**After contact with eyes**

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

**After ingestion**

Rinse mouth immediately and drink 1 glass of water. Rinse mouth thoroughly with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Get medical advice/attention if you feel unwell.

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

No information available.

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

Treat symptomatically.

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

Foam, Carbon dioxide (CO<sub>2</sub>), Dry extinguishing powder  
Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

Full water jet



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### MD-Megabond 2000 1:1 Part A

Revision date: 21.02.2023

Product code: MMB

Page 4 of 13

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

In case of fire may be liberated: Pyrolysis products, toxic (Carbon monoxide Carbon dioxide (CO<sub>2</sub>))

#### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

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

##### **General advice**

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

##### **For non-emergency personnel**

Provide adequate ventilation. Use personal protection equipment.

##### **For emergency responders**

Personal protection equipment: see section 8

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

Do not allow uncontrolled discharge of product into the environment.

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

##### **For containment**

Stop leak if safe to do so. Cover drains.

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

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

##### **Other information**

Clean contaminated articles and floor according to the environmental legislation.

#### **6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Use personal protection equipment.

##### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Usual measures for fire prevention.

##### **Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

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

##### **Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MD-Megabond 2000 1:1 Part A**

Revision date: 21.02.2023

Product code: MMB

Page 5 of 13

**Hints on joint storage**

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Keep away from: Food and feedingstuffs

Protect from direct sunlight.

Do not store together with: Oxidizing agent, Acids

**Further information on storage conditions**

Recommended storage temperature: 5 - 25°C

**7.3. Specific end use(s)**

Adhesives and sealants (Multi-component adhesives and sealants)

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limit values**

CAS No	Name of agent	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
80-62-6	Methyl methacrylate	50	-		TWA (8 h)	
		100	-		STEL (15 min)	

**DNEL/DMEL values**

CAS No	Name of agent	Exposure route	Effect	Value
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			
Worker DNEL, long-term		inhalation	systemic	208 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	13,67 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	416 mg/m <sup>3</sup>

**PNEC values**

CAS No	Name of agent	Value
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	
Freshwater		0,94 mg/l
Marine water		0,094 mg/l
Freshwater sediment		10,2 mg/kg
Marine sediment		1,02 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		1,48 mg/kg

**8.2. Exposure controls****Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear eye/face protection. (EN 166)

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MD-Megabond 2000 1:1 Part A**

Revision date: 21.02.2023

Product code: MMB

Page 6 of 13

**Hand protection**

Wear suitable gloves. (EN ISO 374)

By long-term hand contact

Suitable material: Butyl caoutchouc (butyl rubber)

Thickness of the glove material: &gt; 0,7mm

Permeation time (maximum wear duration): &gt; 480 min.

By short-term hand contact

Suitable material: Butyl caoutchouc (butyl rubber)

Thickness of the glove material: &gt; 0,7mm

Permeation time (maximum wear duration): &gt; 60 min.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. (EN 14387) Filter type: A

**Thermal hazards**

No information available.

**Environmental exposure controls**

Avoid release to the environment.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	Liquid (Paste)	
Colour:	amber	
Odour:	like: Solvent:	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:	Highly flammable liquid and vapour.	
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		15 °C
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		Immiscible
Solubility in other solvents		
	not determined	
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not determined
Density:		0,97 g/cm <sup>3</sup>
Relative vapour density:		not determined
Particle characteristics:		not applicable



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### MD-Megabond 2000 1:1 Part A

Revision date: 21.02.2023

Product code: MMB

Page 7 of 13

#### 9.2. Other information

##### Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

##### Other safety characteristics

Viscosity / dynamic:  
(at 20 °C)

130000-150000 mPa·s

##### Further Information

No information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Reaction with: Oxidizing agent, Reducing agent, Heavy metals

#### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Protect against: Heat, Frost

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic (Carbon monoxide Carbon dioxide (CO<sub>2</sub>))

### SECTION 11: Toxicological information

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

##### Acute toxicity

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

##### ATEmix calculated

ATE (oral) 7099,0 mg/kg; ATE (dermal) 2811,9 mg/kg; ATE (inhalation vapour) 57,53 mg/l; ATE (inhalation dust/mist) 8,591 mg/l



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## MD-Megabond 2000 1:1 Part A

Revision date: 21.02.2023

Product code: MMB

Page 8 of 13

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
79-41-4	methacrylic acid; 2-methylpropenoic acid				
	oral	LD50 1320 mg/kg	Rat	ECHA	
	dermal	ATE 300 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
98-59-9	p-toluene sulfonyl chloride				
	oral	LD50 4680 mg/kg	Rat	Manufacturer	
80-15-9	alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide				
	oral	LD50 382 mg/kg	Rat	Manufacturer	
	dermal	ATE 1100 mg/kg			
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	ATE 0,5 mg/l			
128-37-0	2,6-di-tert-butyl-p-cresol				
	oral	LD50 > 2930 mg/kg	Rat	Manufacturer	OECD 401
	dermal	LD50 > 2000 mg/kg	Rat	Manufacturer	OECD 402

**Irritation and corrosivity**

Causes severe skin burns and eye damage.  
Causes serious eye damage.

**Sensitising effects**

May cause an allergic skin reaction. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; p-toluene sulfonyl chloride)

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

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

**STOT-single exposure**

May cause respiratory irritation. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methacrylic acid; 2-methylpropenoic acid; alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide)

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**Information on likely routes of exposure**

oral, dermal, inhalative, Eye contact

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

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

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



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MD-Megabond 2000 1:1 Part A**

Revision date: 21.02.2023

Product code: MMB

Page 9 of 13

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
79-41-4	methacrylic acid; 2-methylpropenoic acid					
	Acute fish toxicity	LC50	85 mg/l	96 h	Piscis	Manufacturer
128-37-0	2,6-di-tert-butyl-p-cresol					
	Fish toxicity	NOEC	0,053	42 d	Oryzias latipes (Ricefish)	Manufacturer
	Crustacea toxicity	NOEC	0,023	21 d	Daphnia magna (Big water flea)	Manufacturer

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
128-37-0	2,6-di-tert-butyl-p-cresol	5,2

**BCF**

CAS No	Chemical name	BCF	Species	Source
128-37-0	2,6-di-tert-butyl-p-cresol	598		

**12.4. Mobility in soil**

No information available.

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

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

**12.6. Endocrine disrupting properties**

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

**12.7. Other adverse effects**

Avoid release to the environment.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

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

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**List of Wastes Code - residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## MD-Megabond 2000 1:1 Part A

Revision date: 21.02.2023

Product code: MMB

Page 10 of 13

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

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

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

UN 2924

**14.2. UN proper shipping name:**

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate/ methacrylic acid; 2-methylpropenoic acid)

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

3

**14.4. Packing group:**

II

Hazard label:

3+8



Classification code:

FC

Special Provisions:

274

Limited quantity:

1 L

Excepted quantity:

E2

Transport category:

2

Hazard No:

338

Tunnel restriction code:

D/E

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

UN 2924

**14.2. UN proper shipping name:**

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate/ methacrylic acid; 2-methylpropenoic acid)

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

3

**14.4. Packing group:**

II

Hazard label:

3+8



Classification code:

FC

Special Provisions:

274

Limited quantity:

1 L

Excepted quantity:

E2

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

UN 2924

**14.2. UN proper shipping name:**

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYLMETHACRYLAT / METHACRYLIC ACID)

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

3

**14.4. Packing group:**

II

Hazard label:

3+8

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MD-Megabond 2000 1:1 Part A**

Revision date: 21.02.2023

Product code: MMB

Page 11 of 13



Special Provisions: 274  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 EmS: F-E, S-C

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

**14.1. UN number or ID number:** UN 2924  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S.(METHYLMETHACRYLAT / METHACRYLIC ACID)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3+8



Special Provisions: A3  
 Limited quantity Passenger: 0.5 L  
 Passenger LQ: Y340  
 Excepted quantity: E2  
 IATA-packing instructions - Passenger: 352  
 IATA-max. quantity - Passenger: 1 L  
 IATA-packing instructions - Cargo: 363  
 IATA-max. quantity - Cargo: 5 L

**14.6. Special precautions for user**

Warning: Combustible liquid., corrosive

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

not applicable

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

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2010/75/EU (VOC): < 65 % (630 g/l)  
 Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).  
 Water hazard class (D): 2 - obviously hazardous to water

**15.2. Chemical safety assessment**

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

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

CLP: Classification, labelling and Packaging  
 REACH: Registration, Evaluation and Authorization of Chemicals

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MD-Megabond 2000 1:1 Part A**

Revision date: 21.02.2023

Product code: MMB

Page 12 of 13

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
 UN: United Nations  
 CAS: Chemical Abstracts Service  
 DNEL: Derived No Effect Level  
 DMEL: Derived Minimal Effect Level  
 PNEC: Predicted No Effect Concentration  
 ATE: Acute toxicity estimate  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%  
 LL50: Lethal loading, 50%  
 EL50: Effect loading, 50%  
 EC50: Effective Concentration 50%  
 ErC50: Effective Concentration 50%, growth rate  
 NOEC: No Observed Effect Concentration  
 BCF: Bio-concentration factor  
 PBT: persistent, bioaccumulative, toxic  
 vPvB: very persistent, very bioaccumulative  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 VOC: Volatile Organic Compounds  
 SVHC: Substance of Very High Concern  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 RID: Regulations concerning the international carriage of dangerous goods by rail  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
 intérieures)  
 IMDG: International Maritime Code for Dangerous Goods  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 IATA: International Air Transport Association  
 ICAO: International Civil Aviation Organization  
 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety  
 assessment, chapter R.20 (Table of terms and abbreviations).

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method
Aquatic Chronic 3; H412	Calculation method

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

H225	Highly flammable liquid and vapour.
H242	Heating may cause a fire.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
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.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### MD-Megabond 2000 1:1 Part A

Revision date: 21.02.2023

Product code: MMB

Page 13 of 13

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.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MD-Megabond 2000 1:1 Part B**

Revision date: 21.02.2023

Product code: MMB

Page 1 of 11

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

MD-Megabond 2000 1:1 Part B

UFI: 65RV-A9DT-H00T-M3V3

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

Adhesives and sealants

**1.3. Details of the supplier of the safety data sheet**

Company name:	Marston-Domsel GmbH	
Street:	Bergheimer Str. 15	
Place:	53909 Zülpich	
Telephone:	+49 (0) 22 52 94 15 - 0	Telefax: +49 (0) 22 52 17 44
e-mail:	info@marston-domsel.de	
Contact person:	Qualitätsmanagement	
e-mail:	QM@marston-domsel.de	
Internet:	www.marston-domsel.de	

**1.4. Emergency telephone number:**

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

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

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate

Signal word: Danger

**Pictograms:****Hazard statements**

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MD-Megabond 2000 1:1 Part B**

Revision date: 21.02.2023

Product code: MMB

Page 2 of 11

smoking.

P280

P403+P235

P501

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

Store in a well-ventilated place. Keep cool.

Dispose of contents/container to an appropriate recycling or disposal facility.

**2.3. Other hazards**

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

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

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			70 - 90 %
	201-297-1	607-035-00-6	01-2119452498-28	
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335			
34562-31-7	3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine			5 - < 10 %
	252-091-3		01-2120769712-47	
	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H312 H302 H315 H319			
128-37-0	2,6-di-tert-butyl-p-cresol			< 1 %
	204-881-4		01-2119565113-46	
	Aquatic Chronic 1; H410			

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

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

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
34562-31-7	252-091-3	3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	5 - < 10 %
		dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg	
128-37-0	204-881-4	2,6-di-tert-butyl-p-cresol	< 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2930 mg/kg Aquatic Chronic 1; H410: M=1	

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

When in doubt or if symptoms are observed, get medical advice. Take off immediately all contaminated clothing and wash it before reuse.

**After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice. Remove casualty to fresh air and keep warm and at rest. If unconscious but breathing normally, place in recovery position and seek medical advice. If experiencing respiratory symptoms: Call a doctor.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. Take off contaminated clothing and wash it before reuse. Gently wash with plenty of soap and water. In case of skin reactions, consult a physician.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## MD-Megabond 2000 1:1 Part B

Revision date: 21.02.2023

Product code: MMB

Page 3 of 11

apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.

### After ingestion

Rinse mouth immediately and drink 1 glass of water. Rinse mouth thoroughly with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Get medical advice/attention if you feel unwell.

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

No information available.

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

Treat symptomatically. Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder. Foam, Carbon dioxide (CO<sub>2</sub>), Dry extinguishing powder  
Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

Full water jet

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

Highly flammable. Vapours can form explosive mixtures with air. In case of fire may be liberated: Pyrolysis products, toxic (Carbon monoxide Carbon dioxide (CO<sub>2</sub>))

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. In case of fire:  
Wear self-contained breathing apparatus. Full protection suit.

### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

#### General advice

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment.

#### For emergency responders

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment.

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

#### For containment

Stop leak if safe to do so. Cover drains.

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Other information

Clean contaminated articles and floor according to the environmental legislation.



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MD-Megabond 2000 1:1 Part B**

Revision date: 21.02.2023

Product code: MMB

Page 4 of 11

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Use personal protection equipment.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Usual measures for fire prevention.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

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

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Hints on joint storage**

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Keep away from: Food and feedingstuffs

Protect from direct sunlight.

Do not store together with: Oxidizing agent, Acids

**Further information on storage conditions**

Recommended storage temperature: 5 - 25°C

**7.3. Specific end use(s)**

Adhesives and sealants (Multi-component adhesives and sealants)

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limit values**

CAS No	Name of agent	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
80-62-6	Methyl methacrylate	50	-		TWA (8 h)	
		100	-		STEL (15 min)	

**DNEL/DMEL values**

CAS No	Name of agent	Exposure route	Effect	Value
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			
Worker DNEL, long-term		inhalation	systemic	208 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	13,67 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	416 mg/m <sup>3</sup>

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MD-Megabond 2000 1:1 Part B**

Revision date: 21.02.2023

Product code: MMB

Page 5 of 11

**PNEC values**

CAS No	Name of agent	
	Environmental compartment	Value
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	
	Freshwater	0,94 mg/l
	Marine water	0,094 mg/l
	Freshwater sediment	10,2 mg/kg
	Marine sediment	1,02 mg/kg
	Micro-organisms in sewage treatment plants (STP)	10 mg/l
	Soil	1,48 mg/kg

**8.2. Exposure controls****Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation as well as local exhaustion at critical locations.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear eye/face protection. Wear eye/face protection. (EN 166)

**Hand protection**

Wear suitable gloves. (EN ISO 374)

By long-term hand contact

Suitable material: Butyl caoutchouc (butyl rubber)

Thickness of the glove material: > 0,4mm

Permeation time (maximum wear duration): > 480 min.

By short-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: > 0,4mm

Permeation time (maximum wear duration): > 120 min.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. (EN 14387) Filter type: AX

**Thermal hazards**

Flame-retardant protective clothing. Wear anti-static footwear and clothing No information available.

**Environmental exposure controls**

Avoid release to the environment.

**MD-Megabond 2000 1:1 Part B**

Revision date: 21.02.2023

Product code: MMB

Page 6 of 11

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	Liquid (Paste)	
Colour:	amber	
Odour:	like: Solvent:	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:	Highly flammable liquid and vapour.	
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		15 °C
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		Immiscible
Solubility in other solvents		not determined
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not determined
Density:		0,95 g/cm <sup>3</sup>
Relative vapour density:		not determined
Particle characteristics:		not applicable

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

Explosive properties

The product is not: Explosive.

**Other safety characteristics**Viscosity / dynamic: 150000-200000 mPa·s  
(at 20 °C)**Further Information**

No information available.

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

Highly flammable. No information available.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Reaction with: Oxidizing agent, Reducing agent, Alkali (lye)

**10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Protect against: Heat, Frost

**10.5. Incompatible materials**

No information available.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MD-Megabond 2000 1:1 Part B**

Revision date: 21.02.2023

Product code: MMB

Page 7 of 11

**10.6. Hazardous decomposition products**In case of fire may be liberated: Pyrolysis products, toxic (Carbon monoxide Carbon dioxide (CO<sub>2</sub>))**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

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

**ATEmix calculated**

ATE (oral) 5005,0 mg/kg; ATE (dermal) 11011,0 mg/kg

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
34562-31-7	3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine					
	oral	ATE 500 mg/kg				
	dermal	ATE 1100 mg/kg				
128-37-0	2,6-di-tert-butyl-p-cresol					
	oral	LD50 > 2930 mg/kg	Rat	Manufacturer	OECD 401	
	dermal	LD50 > 2000 mg/kg	Rat	Manufacturer	OECD 402	

**Irritation and corrosivity**

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

May cause an allergic skin reaction. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate)

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

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

**STOT-single exposure**

May cause respiratory irritation. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate)

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**Information on likely routes of exposure**

oral, dermal, inhalative, Eye contact

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

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

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

Harmful to aquatic life with long lasting effects.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MD-Megabond 2000 1:1 Part B**

Revision date: 21.02.2023

Product code: MMB

Page 8 of 11

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
128-37-0	2,6-di-tert-butyl-p-cresol					
	Fish toxicity	NOEC mg/l	0,053	42 d	Oryzias latipes (Ricefish)	Manufacturer
	Crustacea toxicity	NOEC mg/l	0,023	21 d	Daphnia magna (Big water flea)	Manufacturer

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
128-37-0	2,6-di-tert-butyl-p-cresol	5,2

**BCF**

CAS No	Chemical name	BCF	Species	Source
128-37-0	2,6-di-tert-butyl-p-cresol	598		

**12.4. Mobility in soil**

No information available.

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

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

**12.6. Endocrine disrupting properties**

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

**12.7. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

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

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**List of Wastes Code - residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

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



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## MD-Megabond 2000 1:1 Part B

Revision date: 21.02.2023

Product code: MMB

Page 9 of 11

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number or ID number:** UN 1133  
**14.2. UN proper shipping name:** ADHESIVES  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 640D  
 Limited quantity: 5 L  
 Excepted quantity: E2  
 Transport category: 2  
 Hazard No: 33  
 Tunnel restriction code: D/E

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 1133  
**14.2. UN proper shipping name:** Adhesives  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 640D  
 Limited quantity: 5 L  
 Excepted quantity: E2

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 1133  
**14.2. UN proper shipping name:** ADHESIVES  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Special Provisions: -  
 Limited quantity: 5 L  
 Excepted quantity: E2  
 EmS: F-E, S-D

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

**14.1. UN number or ID number:** UN 1133  
**14.2. UN proper shipping name:** ADHESIVES

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MD-Megabond 2000 1:1 Part B**

Revision date: 21.02.2023

Product code: MMB

Page 10 of 11

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

Hazard label: 3



Special Provisions: A3

Limited quantity Passenger: 1 L

Passenger LQ: Y341

Excepted quantity: E2

IATA-packing instructions - Passenger: 353

IATA-max. quantity - Passenger: 5 L

IATA-packing instructions - Cargo: 364

IATA-max. quantity - Cargo: 60 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Warning: Combustible liquid.

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

not applicable

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

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2010/75/EU (VOC): &lt; 90% (850 g/l)

Information according to 2012/18/EU P5c FLAMMABLE LIQUIDS

(SEVESO III):

**National regulatory information**

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

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

**15.2. Chemical safety assessment**

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

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

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MD-Megabond 2000 1:1 Part B**

Revision date: 21.02.2023

Product code: MMB

Page 11 of 11

EL50: Effect loading, 50%  
 EC50: Effective Concentration 50%  
 ErC50: Effective Concentration 50%, growth rate  
 NOEC: No Observed Effect Concentration  
 BCF: Bio-concentration factor  
 PBT: persistent, bioaccumulative, toxic  
 vPvB: very persistent, very bioaccumulative  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 VOC: Volatile Organic Compounds  
 SVHC: Substance of Very High Concern  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 RID: Regulations concerning the international carriage of dangerous goods by rail  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
 intérieures)  
 IMDG: International Maritime Code for Dangerous Goods  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 IATA: International Air Transport Association  
 ICAO: International Civil Aviation Organization  
 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety  
 assessment, chapter R.20 (Table of terms and abbreviations).

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Irrit. 2; H315	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method
Aquatic Chronic 3; H412	Calculation method

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

H225 Highly flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*