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

1.1. Product identifier

Glusil

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

Use of the substance/preparation

Adhesive for hearing tubes

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Otoplastik GmbH
Max-Planck-Straße 31
59423 Unna

Telephone no.	+49 2303 8807-0
Fax no.	+49 2303 8807-29
Information provided by / telephone	Department Research & Development: Fax: +49 2303 8807-562
E-mail address of person responsible for this SDS	sicherheitsdatenblatt@dreve.de

1.4. Emergency telephone number

Henkel Fire Department / 24h-Emergency-Contact-No.: +49 211 797-3350

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
Repr. 2	H361d
STOT SE 3	H336
STOT RE 2	H373

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

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms

Signal word

Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/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.
P308+P313	IF exposed or concerned: Get medical advice/ attention.

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

contains	n-Butanol; Toluene
EUH208 Contains	Methyl methacrylate monomer, stabilized Butyl methacrylate May produce an allergic reaction.

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Polyacrylate, Organosilane and Solvent

Hazardous ingredients

Toluene

CAS No.	108-88-3	
EINECS no.	203-625-9	
Registration no.	01-2119471310-51	
Concentration	>= 50	%

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

Flam. Liq. 2	H225
Asp. Tox. 1	H304
Skin Irrit. 2	H315
Repr. 2	H361d
STOT SE 3	H336
STOT RE 2	H373

n-Butanol

CAS No.	71-36-3				
EINECS no.	200-751-6				
Registration no.	01-2119484630-38				
Concentration	>=	1	<	3	%

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

Flam. Liq. 3	H226
Acute Tox. 4	H302
Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H335
STOT SE 3	H336

Methyl methacrylate monomer, stabilized

CAS No.	80-62-6				
EINECS no.	201-297-1				
Registration no.	01-2119452498-28				
Concentration	>=	0,1	<	1	%

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

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Skin Sens. 1	H317
STOT SE 3	H335

Additional remarks:

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

Butyl methacrylate

CAS No.	97-88-1				
EINECS no.	202-615-1				
Registration no.	01-2119486394-28				
Concentration	>=	0,1	<	1	%

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

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H335

Additional remarks:

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

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. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. Remove affected person from danger area. Seek medical advice immediately.

After skin contact

Wash off immediately with soap and water. Seek medical advice immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet. 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

Recommended: alcohol resistant foam, CO2, powders, water spray/mist, Extinguishing measures to suit surroundings

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. Observe manufacturer's / distributor`s instructions.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away sources of ignition. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. 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. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Pick up rest with suitable absorbent materials. Do not pick up with the help of saw-dust or other combustible substances. Clean contaminated floors and objects thoroughly, observing environmental regulations. 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

Ensure adequate ventilation. Avoid formation of aerosols. Avoid impact, friction and electro-static loading; risk of ignition!. Use explosion-proof apparatus and fittings. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Keep container tightly closed.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges. Avoid impact and friction. Use only explosion-proof equipment. Keep away from combustible material. Wear shoes with conductive soles.

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 together with foodstuffs. Do not store with strong oxidizing agents.

Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized. Keep container tightly closed and in a well-ventilated place. Keep in a cool place

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Toluene

List	TRGS 900			
Value	190	mg/m³	50	ml/m³

Maximum limit value: 4(II); Skin resorption / sensibilisation: H Y 06/21; Remarks: DFG

Toluene

List	EU			
Value	192	mg/m³	50	ppm(V)
Short term exposure limit	384	mg/m³	100	ppm(V)

Skin resorption / sensibilisation: H Remarks: Richtlinie 2006/15/EG

Biological limit values

Toluene

List	BGW (TRGS 903)
Value	600 µg/l
Parameter	Toluene
Testing material	Whole blood (B)
Test date	End of exposure or end of shift (b)

Toluene

List	BGW (TRGS 903)
Value	1,5 mg/l
Parameter	p-cresol
Testing material	Urine (U)
Test date	End of exposure or end of shift (b)

Toluene

List	BGW (TRGS 903)
Value	1,5 mg/l
Parameter	p-cresol
Testing material	Urine (U)
Test date	At longterm exposure: after several previous shifts (c)

Toluene

List	BGW (TRGS 903)
Value	0,075 mg/l
Parameter	Toluene
Testing material	Urine (U)
Test date	End of exposure or end of shift (b)

n-Butanol

Value	2 mg/g creatinine
Parameter	butan-1-ol
Testing material	Urine (U)
Test date	Before next shift (d)

n-Butanol

List	BGW (TRGS 903)
Value	10 mg/g creatinine
Parameter	butan-1-ol
Testing material	Urine (U)
Test date	End of exposure or end of shift (b)

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Toluene

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	384	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	192	mg/m³

Type of value	Derived No Effect Level (DNEL)

Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	192	mg/m³

Methyl methacrylate monomer, stabilized

Reference substance	Methyl methacrylate monomer, stabilized	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	208	mg/m³

	Methyl methacrylate monomer, stabilized	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	13,7	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Concentration	416	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,0015	mg/cm²

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	8,2	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	8,2	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Concentration	208	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	74,3	mg/m³

Predicted No Effect Concentration (PNEC)

Toluene

Type of value	PNEC	
Type	Freshwater	
Concentration	0,68	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	16,39	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	2,89	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	13,61	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	16,39	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,68	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,68	mg/l

Methyl methacrylate monomer, stabilized

Reference substance	Methyl methacrylate monomer, stabilized	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,94	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,094	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	1,48	mg/kg
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	10,2	mg/kg
Type of value	PNEC	

Type	Sewage treatment plant (STP)	
Concentration	10	mg/l
Type of value	PNEC	
Type	Man via the environment	
Concentration	8,2	mg/kg/d
Type of value	PNEC	
Type	Marine sediment	
Concentration	1,2	mg/kg

8.2. Exposure controls

General protective and hygiene measures

Do not smoke during work time. Hold emergency shower available. 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. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.
The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Appropriate Material	viton	
Material thickness	0,7	mm
Breakthrough time	480	min

Hand protection must comply with EN 374.

Eye protection

Safety glasses with side protection shield; Face 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

Physical state	liquid
Colour	colourless
Odour	characteristic

Melting point

Remarks	not determined

Freezing point

Remarks	not determined

Boiling point or initial boiling point and boiling range

Value	111	°C
Pressure	1013	hPa

Flammability

evaluation	not determined				

Upper and lower explosive limits

Lower explosion limit	1,2				%(V)
Upper explosion limit	7,0				%(V)

Flash point

Value	8				°C
Method	closed cup				

Ignition temperature

Value	535				°C

Decomposition temperature

Remarks	not determined				

pH value

Remarks	not determined				

Viscosity

dynamic

Value	100	to	300		mPa.s
Temperature	25	°C			

Solubility(ies)

Remarks	not determined				

Partition coefficient n-octanol/water (log value)

Remarks	not determined				

Vapour pressure

Value	29				hPa
Temperature	20	°C			

Density and/or relative density

Value	0,95				g/cm³
Temperature	25	°C			

Relative vapour density

Remarks	not determined				

9.2. Other information

Odour threshold

Remarks	not determined				

Evaporation rate (ether = 1) :

Remarks	not determined				

Solubility in water

Remarks	virtually insoluble				

Explosive properties

evaluation	not determined				

Oxidising properties

Remarks	not determined				

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
Product reacts with: Water

10.6. Hazardous decomposition products
Toxic gases/vapours, Irritant gases/vapours

SECTION 11: Toxicological information

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

Acute oral toxicity

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

Acute oral toxicity (Components)

Toluene

Species	rat (male)	
LD50	5580	mg/kg
Method	EEC 84/449, B.1	

n-Butanol

Species	rat (female)	
LD50	appr. 2290	mg/kg
Method	OECD 401	

Methyl methacrylate monomer, stabilized

Species	rat	
LD50	appr. 7900	mg/kg

Butyl methacrylate

Species	rat	
LD0	> 2000	mg/kg
Method	OECD 401	

Acute dermal toxicity

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

Acute dermal toxicity (Components)

Toluene

Species	rabbit	
LD50	> 5000	mg/kg

n-Butanol

Species	rabbit	
LD50	appr. 3430	mg/kg
Method	OECD 402	

Methyl methacrylate monomer, stabilized

Species	rabbit

LD50	>	5000	mg/kg
Method	OECD 402		

Butyl methacrylate

Species	rabbit		
LD0	>	2000	mg/kg
Method	OECD 402		

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)

Toluene

Species	rat		
LC50		28,1	mg/l
Duration of exposure		4	h
Administration/Form	Vapors		
Method	OECD 403		

n-Butanol

Species	rat		
LC0	>	17,76	mg/l
Duration of exposure		4	h
Administration/Form	Dust/Mist		
Method	OECD 403		

Methyl methacrylate monomer, stabilized

Species	rat		
LC50		29,8	mg/l
Duration of exposure		4	h
Administration/Form	Vapors		

Butyl methacrylate

Species	rat		
LC50		29	mg/l
Duration of exposure		4	h
Administration/Form	Dust/Mist		
Method	OECD 403		

Skin corrosion/irritation

evaluation: irritant

Remarks: The classification criteria are met.

Skin corrosion/irritation (Components)

Toluene

Species	rabbit
evaluation	irritant
Method	EEC 84/449, B.4

n-Butanol

Species	rabbit
evaluation	irritant

Methyl methacrylate monomer, stabilized

Species	Human
evaluation	irritant

Butyl methacrylate

Species	rabbit
evaluation	slightly irritant

Serious eye damage/irritation

evaluation: irritant

Remarks: The classification criteria are met.

Serious eye damage/irritation (Components)

Toluene

Species	rabbit
evaluation	slight irritant effect - does not require labelling
Method	OECD 405

n-Butanol

Species	rabbit
evaluation	corrosive
Method	OECD 405

Butyl methacrylate

Species	rabbit
evaluation	slightly irritant
Method	OECD 405

Sensitization

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

Sensitization (Components)

Methyl methacrylate monomer, stabilized

Route of exposure	dermal
Species	mouse
evaluation	sensitizing
Method	OECD 429

Butyl methacrylate

Route of exposure	dermal
Species	mouse
evaluation	sensitizing

Subacute, subchronic, chronic toxicity

Remarks: not determined

Mutagenicity

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

Reproductive toxicity

evaluation: Suspected of damaging the unborn child.

Remarks: The classification criteria are met.

Reproduction toxicity (Components)

Toluene

Route of exposure	inhalative
Species	rat
evaluation	Suspected of damaging the unborn child.

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks: The classification criteria are met.

evaluation: May cause drowsiness or dizziness.

Repeated exposure

Remarks: The classification criteria are met.

evaluation: May cause damage to organs through prolonged or repeated exposure

Specific Target Organ Toxicity (STOT) (Components)

Toluene

Single exposure

evaluation	May cause drowsiness or dizziness. Route of exposure inhalative

Toluene

Repeated exposure

evaluation	May cause damage to organs through prolonged or repeated exposure
Species	rat

n-Butanol

Single exposure

evaluation	May cause respiratory irritation. Route of exposure inhalative Organs: Respiratory tract
Species	rat
LC50	
Method	FDA guideline
Source	ECHA

n-Butanol

Single exposure

evaluation	May cause drowsiness or dizziness. Route of exposure oral Organs: Nervous system
Species	rat
LC50	
Source	ECHA

Methyl methacrylate monomer, stabilized

Single exposure

evaluation	May cause respiratory irritation. Route of exposure inhalative

Butyl methacrylate

Single exposure

evaluation	May cause respiratory irritation. Route of exposure inhalative

Aspiration hazard

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

Aspiration hazard (Components)

Toluene

Harmful: may cause lung damage if swallowed.

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

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)

Toluene

Species	Oncorhynchus kisutch		
LC50	5,5		mg/l
Duration of exposure	96	h	

Toluene

Species	Oncorhynchus kisutch		
NOEC	1,39		mg/l
Duration of exposure	40	d	

n-Butanol

Species	Fathead minnow (Pimephales promelas)		
LC50	1376		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Methyl methacrylate monomer, stabilized

Species	rainbow trout (Oncorhynchus mykiss)		
LC50	> 79		mg/l
Duration of exposure	96	h	

Methyl methacrylate monomer, stabilized

Species	zebra fish (Brachydanio rerio)		
NOEC	9,4		mg/l
Duration of exposure	35	d	
Method	OECD 210		

Butyl methacrylate

Species	Fathead minnow (Pimephales promelas)		
LC50	11		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Daphnia toxicity (Components)

Toluene

Species	Ceriodaphnia spec		
LC50	3,78		mg/l
Duration of exposure	48	h	

Toluene

Species	Ceriodaphnia spec		
NOEC	0,74		mg/l
Duration of exposure	7	d	

n-Butanol

Species	Daphnia magna		
EC50	1328		mg/l
Duration of exposure	48	h	
Method	OECD 202		

n-Butanol

Species	Daphnia magna		
NOEC	4,1		mg/l
Duration of exposure	21	d	
Method	OECD 211		

Methyl methacrylate monomer, stabilized

Species	Daphnia magna

EC50	69		mg/l
Duration of exposure	48	h	

Methyl methacrylate monomer, stabilized

Species	Daphnia magna		
NOEC	37		mg/l
Duration of exposure	21	d	
Method	OECD 211		

Butyl methacrylate

Species	Daphnia magna		
EC50	25,4		mg/l
Duration of exposure	48	h	
Method	OECD 202		

Butyl methacrylate

Species	Daphnia magna		
NOEC	1,1		mg/l
Duration of exposure	21	d	
Method	OECD 211		

Algae toxicity (Components)

Toluene

Species	Chlorella vulgaris		
EC50	134		mg/l
Duration of exposure	3	h	

n-Butanol

Species	Pseudokirchneriella subcapitata		
EC50	225		mg/l
Duration of exposure	96	h	
Method	OECD 201		

Methyl methacrylate monomer, stabilized

Species	Pseudokirchneriella subcapitata		
EC50	> 110		mg/l
Duration of exposure	72	h	
Method	OECD 201		

Butyl methacrylate

Species	Pseudokirchneriella subcapitata		
EC50	31,2		mg/l
Duration of exposure	72	h	
Method	OECD 201		

Bacteria toxicity (Components)

Toluene

EC50	84		mg/l
Duration of exposure	24	h	

n-Butanol

Species	Pseudomonas putida		
EC50	4390		mg/l
Duration of exposure	17	h	
Method	DIN 38412 / Part 8		

Methyl methacrylate monomer, stabilized

Species	activated sludge		
NOEC	> 100		mg/l
Duration of exposure	14	d	

Butyl methacrylate

Species	Pseudomonas putida		
EC10	31,7		mg/l

12.2. Persistence and degradability

General information

not determined

Ready degradability (Components)

Toluene

n-Butanol

Value	92		%
Duration of test	20	d	

Methyl methacrylate monomer, stabilized

Value	94		%
Duration of test	14	d	

Butyl methacrylate

Value	88		%
Duration of test	28	d	

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient n-octanol/water (log value)

Remarks: not determined

Octanol/water partition coefficient (log Pow) (Components)

Toluene

log Pow	2,73	
Temperature	20	°C

n-Butanol

log Pow	1	
Temperature	25	°C
Method	OECD 107	

Methyl methacrylate monomer, stabilized

log Pow	1,38	
Temperature	20	°C
Method	OECD 107	

Butyl methacrylate

log Pow	2,99	
Temperature	20	°C

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

Results of PBT and vPvB assessment

The product contains no PBT substances
The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the envrionment

The product does not contain a substance that has endocrine disrupting properties with respect to non-

target organisms.

12.7. 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

Must not be disposed together with household garbage.
Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

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

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	1993	1993	1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Toluene, n-Butanol)	FLAMMABLE LIQUID, N.O.S. (Toluene, n-Butanol)	FLAMMABLE LIQUID, N.O.S. (Toluene, n-Butanol)
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Special provision	640D		
Limited Quantity	1 l	1 l	
Transport category	2		
14.5. Environmental hazards	-	no -	-
Tunnel restriction code	D/E		

SECTION 15: Regulatory information

15.2. Chemical safety assessment

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

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

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

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Repr. 2	H361d
STOT SE 3	H336
STOT RE 2	H373

Hazard statements listed in Chapter 2/3

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.

H304	May be fatal if swallowed and enters airways.
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.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 2	Reproductive toxicity, Category 2
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

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.