

BONDAN AN77

Revision date: 11.02.2021
Version: 1.004



1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name BONDAN AN77

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

General use Adhesive and sealant.

1.3 Details of the supplier of the safety data sheet

Drei Bond GmbH · Carl-Zeiss-Ring 13 · 85737 Ismaning
t +49 (0)89 96 24 27-0 · f +49 (0)89 96 24 27-19
Department responsible for information: info@bondan.de · t +49 89 962427-0

1.4 Emergency telephone number

Drei Bond GmbH	Tel. +49 (0)89 96 24 27-0
Carl-Zeiss-Ring 13	During office hours
85737 Ismaning	Mo – Do 9:00 am – 05:00 pm
	Fr 8:00 am – 3:00 pm

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Physical hazards	Not Classified
Health hazards	Skin Sens. 1 – H317
Environmental hazards	Not Classified

2.2 Label elements

Labelling CLP:



Signal word

Warning

Hazard statements

H317

May cause an allergic skin reaction.

Precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P280

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

P302+P352

IF ON SKIN: Wash with plenty of water.

P362+P364

Take off contaminated clothing and wash it before reuse.

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

Special labelling

Contains: 2,2'-ethylenedioxydiethyl dimethacrylate, n-butyl methacrylate, methyl methacrylate

Supplementary precautionary statements

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P333+P313

If skin irritation or rash occurs: Get medical advice/attention.



2.3 Other hazards

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

3 Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Ingredient	Designation	Content	Classification
CAS number: 109-16-0 EC number: 203-652-6 REACH registration number: 01-2119969287-21-XXXX	2,2'-Ethylenedioxydiethyl dimethacrylate	65 - < 70 %	Skin Sens. 1 - H317
CAS number: 80-15-9 EC number: 201-254-7 Index number: 617-002-00-8 REACH registration number: 01-2119475796-19-XXXX	Cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide	< 1 %	Org. Perox. E - H242 Acute Tox. 3 - H331 Acute Tox. 4 - H312 Acute Tox. 4 - H302 Skin Corr. 1B - H314 STOT RE 2 - H373 Aquatic Chronic 2 - H411
CAS number: 609-72-3 EC number: 210-199-8 Index number: 612-056-00-9	N,N-Dimethyl-o-toluidine	< 1 %	Acute Tox. 3 - H331 Acute Tox. 3 - H311 Acute Tox. 3 - H301 STOT RE 2 - H373 Aquatic Chronic 3 - H412
CAS number: 97-88-1 EC number: 202-615-1 Index number: 607-033-00-5	n-Butyl methacrylate	< 1 %	Flam. Liq. 3 - H226 Eye Irrit. 2 - H319 STOT SE 3 - H335 Skin Irrit. 2 - H315 Skin Sens. 1 - H317
CAS number: 80-62-6 EC number: 201-297-1 Index number: 607-035-00-6	Methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	< 1 %	Flam. Liq. 2 - H225 STOT SE 3 - H335 Skin Irrit. 2 - H315 Skin Sens. 1 - H317

The full text for all hazard statements is displayed in Section 16.

Further information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH).



4 First aid measures

4.1 Description of first aid measures

General information	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
After inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.
After skin contact	Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.
After eye contact	Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.
After swallowing	Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Carbon dioxide (CO ₂), dry extinguishing powder, alcohol resistant foam, atomized water.
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Unsuitable extinguishing media	High power water jet.
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5.2 Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide (CO), carbon dioxide (CO₂), nitrogen oxides (NO_x)

5.3 Advice for firefighters

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

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Coordinate fire-fighting measures to the fire surroundings.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Safe handling: see section 7

Personal protection equipment: see section 8

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13



7 Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling Wear suitable protective clothing. (see section 8)
- Advice on protection against fire and explosion Usual measures for fire prevention.
- Further information on handling General protection and hygiene measures: See section 8.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage rooms and vessels Keep container tightly closed in a cool, well-ventilated place.
- Hints on joint storage Do not store together with: Explosives; oxidizing solids; oxidizing liquids; radioactive substances; infectious substances. Food and animal feedingstuff.
- Further information on storage conditions Recommended storage temperature: 6 - 22°C
Protect against: Light, UV-radiation/ sun light, heat, cold, humidity

7.3 Specific end use(s)

See section 1.

8 Exposure controls/personal protection

8.1 Control parameters

Exposure limits (EH40)

CAS No.	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
79-41-4	Methacrylic acid	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL
84-66-2	Diethyl phthalate	-	5		TWA (8 h)	WEL
		-	10		STEL (15 min)	WEL



DNEL/DMEL values

CAS No.	Substance		
DNEL type	Exposure route	Effect	Value
109-16-0	2,2'-Ethylenedioxydiethyl dimethacrylate		
Worker DNEL, long-term	dermal	systemic	13,9 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	96,9 mg/m ³
Consumer DNEL, long-term	oral	systemic	8,33 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	8,33 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	28,9 mg/m ³
80-15-9	Cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide		
Worker DNEL, long-term	inhalation	systemic	6 mg/m ³

PNEC values

CAS No.	Substance	
Environmental compartment	Value	
109-16-0	2,2'-Ethylenedioxydiethyl dimethacrylate	
Freshwater	0,164 mg/l	
Freshwater (intermittent releases)	0,164 mg/l	
Marine water	0,0164 mg/l	
Freshwater sediment	1,85 mg/kg	
Marine sediment	0,185 mg/kg	
Micro-organisms in sewage treatment plants (STP)	10 mg/l	
Soil	0,274 mg/kg	
80-15-9	Cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide	
Freshwater	0.003 mg/l	
Marine water	0.003 mg/l	
Freshwater sediment	0.023 mg/kg	
Marine sediment	0.002 mg/kg	
Micro-organisms in sewage treatment plants (STP)	0.35 mg/l	
Soil	0.003 mg/kg	

8.2 Exposure controls



Appropriate engineering controls

Eye/face protection

Hand protection

Skin protection

Protective and hygiene measures



Provide adequate ventilation.

Wear safety glasses; chemical goggles (if splashing is possible – DIN EN 166).

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time \geq 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time \geq 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Suitable protective clothing: Lab apron. Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

- exceeding exposure limit values
- insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Type: P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Environmental exposure controls

No special precautionary measures are necessary.

9 Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	paste
Colour	yellow, opaque
Odour	characteristic
pH-Value	not determined
Changes in the physical state	
Melting point	not determined
Initial boiling point and range	not determined
Sublimation point	not determined
Softening point	not determined
Pour point	not determined
Flash point	> 100 °C
Sustaining combustion	not sustaining combustion
Explosive properties	none
Lower explosion limits	not determined
Upper explosion limits	not determined
Ignition temperature	> 300 °C
Auto-ignition temperature	
Gas	not determined

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Decomposition temperature	not determined
Oxidizing properties	none
Vapour pressure (@ 25 °C)	< 1,5 hPa (DIN 51616)
Density (@ 25 °C)	1.08 g/cm ³ (DIN 51757)
Water solubility	slightly soluble
Solubility in other solvents	not determined
Partition coefficient	not determined
Viscosity @ 25 °C	≈ 20000 – 60000 mPa·s (Brookfield, Sp. 4, 6 rpm); thixotropic
Flow time	not determined
Vapour density	not determined
Evaporation rate	not determined
Solvent separation test	not determined
Solvent content	not determined

9.2 Other information

Solid content not determined

10 Stability and reactivity

10.1 Reactivity

Stabilization required by: Stabilizer and oxygen.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

Stabilization required by: Oxygen.

10.3 Possibility of hazardous reactions

Hazardous polymerisation: Protect against direct sunlight.

Can polymerise exothermically in the absence of stabilisers, particularly in acid conditions or if shelf life exceeded.

Do not store at temperatures over: 60°C

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.



10.4 Conditions to avoid

Protect against: Light, UV-radiation/sunlight, heat, cold, moisture.

10.5 Incompatible materials

Materials to avoid: Oxidizing agents; strong alkalis. Do not mix with peroxide-accelerators or reduction agents, strong acids.

10.6 Hazardous decomposition products

Can be released in case of fire: Carbon monoxide (CO), carbon dioxide (CO₂), nitrogen oxides (NO_x).

11 Toxicological information

11.1 Information on toxicological effects

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

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

CAS No.	Chemical name				
	Exposure route	Dose	Species	Source	Method
109-16-0	2,2'-Ethylenedioxydiethyl dimethacrylate				
	oral	LD50 10837 mg/kg	Rat	Int.Jour.o.Tox. 2005	
	dermal	LD50 > 2000 mg/kg	Mouse	ECHA Dossier	
80-15-9	Cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide				
	oral	LD50 382 mg/kg	Rat	IUCLID	
	dermal	LD50 500 mg/kg	Rat	RTECS	
	inhalation (4 h) vapour	LC50 (200) mg/l	Mouse	IUCLID	
	inhalation aerosol	ATE 0,5 mg/l			
609-72-3	N,N-Dimethyl-o-toluidine				
	oral	ATE 100 mg/kg			
	dermal	ATE 300 mg/kg			
	inhalation vapour	ATE 3 mg/l			
	inhalation aerosol	ATE 0,5 m/l			



97-88-1	n-Butyl methacrylate				
	oral	LD50 > 2000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 > 2000 mg/kg	Rabbit	ECHA Dossier	
	inhalation (4 h) vapour	LC50 29 mg/l	Rat	ECHA Dossier	
80-62-6	Methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate				
	dermal	LD50 > 5000 mg/kg	Rabbit	ECHA Dossier	
	inhalation aerosol	LC50 29,8 mg/l	Rat	ECHA Dossier	

Irritation and corrosivity

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

Sensitising effects

May cause an allergic skin reaction. (2,2'-ethylenedioxydiethyl dimethacrylate; n-butyl methacrylate; 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.

2,2'-Ethylenedioxydiethyl dimethacrylate:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay), OECD Guideline 487 "In vitro Mammalian Cell Micronucleus Test"; Result: negative. Method: OECD Guideline 476 (In Vitro Mammalian Cell Gene Mutation Test). Result: heterogeneous; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity/Reproductive toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test); Species: Rat; Exposure duration: 35-42 d. Result: NOAEL = 1000 mg/kg(bw)day; Literature information: ECHA Dossier

alpha, alpha-Dimethylbenzyl hydroperoxide; cumene hydroperoxide (CAS No. 80-15-9):

In vitro mutagenicity/genotoxicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) Result: positive.; In vivo mutagenicity/genotoxicity: No experimental indications of in vivo mutagenicity exist.; Literature information: ECHA Dossier; In-vivo mutagenicity: Method: other guideline: Standard NTP protocol; Species: Mouse; Result: negative. Literature information: ECHA Dossier



n-butyl methacrylate (CAS-No.: 97-88-1):

In vitro mutagenicity/genotoxicity: No experimental indications of mutagenicity in-vitro exist.;
Reproductive toxicity: NOAEL = 400 mg/kg(bw)/day (Rat, 21d, OECD 416); Developmental
toxicity/teratogenicity : NOAEL = 300 mg/kg(bw)/day (Rabbit, 21d, OECD 414); Literature
information: ECHA Dossier

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

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay);
Result: negative. Literature information: ECHA Dossier; Carcinogenicity: Method: (inhalation.):
OECD Guideline 451 (Carcinogenicity Studies, 6h/d); Species: Mouse.; Exposure duration: 2
years; Result: NOAEC = 4,1 mg/l; Literature information: ECHA Dossier; Reproductive toxicity:
Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study); Species: Rat;
Result: NOAEL = 400 mg/kg; Literature information: ECHA Dossier; Developmental
toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity
Study); Species: Rabbit. Exposure duration: 28d; Result: NOAEL = 450 mg/kg; Literature
information: ECHA Dossier

STOT - single exposure

May cause respiratory irritation. (cumene hydroperoxide, alpha,alpha-dimethylbenzyl
hydroperoxide; 2-methylpropenoic acid, methacrylic acid)

STOT - repeated exposure

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

alpha,alpha-Dimethylbenzyl hydroperoxide; cumene hydroperoxide (CAS No. 80-15-9):

Subchronic inhalation toxicity: Method: -; Species: Rat. Exposure duration: 90d. Result:
NOAEC = 31 mg/m³. Literature information: ECHA Dossier

n-Butyl methacrylate (CAS-No.: 97-88-1):

Subchronic oral toxicity: NOAEL = 120 mg/kg(bw)/day (Rat, 90d, OECD 408); Subacute
inhalation toxicity: NOAEC = 310 ppm (Rat, 28d, OECD 412); Literature information: ECHA
Dossier



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

Chronic oral toxicity: Method: -; Species: Rat; Exposure duration: 2 years; Results: NOAEL = 2000 ppm. Literature information: ECHA Dossier; Chronic inhalation toxicity: Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies, 6h/d); Species: Rat; Exposure duration: approx. 2 years; Results: LOAEC = 250 ppm. Literature information: ECHA Dossier

Aspiration hazard

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

Specific effects in experiment on an animal

No data available.

12 Ecological information

12.1 Toxicity

The product has not been tested.

CAS No.	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
109-16-0	2,2'-Ethylenedioxydiethyl dimethacrylate					
	Acute fish toxicity	LC50 16,4 mg/l	96 h	Danio rerio	ECHA Dossier	
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	
	Crustacea toxicity	NOEC > 100 mg/l	21 d	Daphnia magna	ECHA Dossier	
80-15-9	Cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide					
	Acute fish toxicity	LC50 3,9 mg/l	96 h	Onchorhynchus mykiss	ECHA Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 3,1 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 18,84 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202



97-88-1	n-Butyl methacrylate					
	Acute fish toxicity	LC50 (5,57) mg/l	96 h	Oryzias latipes	ECHA Dossier	
	Acute algae toxicity	ErC50 31,2 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50 (25,4) mg/l	48 h	Daphnia magna	ECHA Dossier	
80-62-6	Methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate					
	Acute fish toxicity	LC50 79 mg/l	96 h	Onchorhynchus mykiss	ECHA Dossier	
	Acute algae toxicity	ErC50 > 110 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50 69 mg/l	48 h	Daphnia magna	ECHA Dossier	

12.2. Persistence and degradability

The product has not been tested.

CAS No.	Chemical name	Value	d	Source
	Method			
	Evaluation			
109-16-0	2,2'-Ethylenedioxydiethyl dimethacrylate			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	85 %	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria)			
80-15-9	Cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide			
	OECD 301B / ISO 9439 / EWG 92/69 Anhang V, C.4-C	3 %	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria)			
97-88-1	n-Butyl methacrylate			
	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F	88 %	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria)			
80-62-6	Methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			
	OECD 301C / ISO 9408 / EWG 92/69 Anhang V, C.4-F	94 %	14	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			



12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water:

CAS No.	Chemical name	Log Pow
80-15-9	Cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide	2,16
97-88-1	n-Butyl methacrylate	2,99
80-62-6	Methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	1,32

12.4 Mobility in soil

No data 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 Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

13 Disposal considerations

13.1 Waste treatment methods

Advice on disposal

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.



Control report for waste code/ waste marking according to EAKV:

Waste disposal number of waste from 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

Waste disposal number of used product

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

Waste disposal number of contaminated packaging

150203 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; absorbents, filter materials, wiping cloths and protective clothing; absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

14 Transport information

14.1 UN number

ADR/RID, ADN, IMDG, ICAO-TI/IATA-DGR:

No dangerous good in sense of these transport regulations.



14.2 UN proper shipping name

ADR/RID, ADN, IMDG, ICAO-TI/IATA-DGR:

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, ICAO-TI/IATA-DGR:

No dangerous good in sense of these transport regulations.

14.4 Packing group

ADR/RID, ADN, IMDG, ICAO-TI/IATA-DGR:

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6 Special precautions for user

refer to section 6 - 8

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

15 Regulatory information

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

EU regulatory information

2010/75/EU (VOC): $\approx 0,79\%$ (calculated)

2004/42/EC (VOC): $\approx 18,2$ g/l (calculated)



Information according to
2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII, No (mixture): 3

National regulatory information

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

15.2 Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

2,2'-Ethylenedioxydiethyl dimethacrylate
Cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide

16 Other information

Revision date: 11.02.2021

Supersedes date: 02.10.2020

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

CAS Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association"
(IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)



GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect level
NTP: National Toxicology Program
N/A: not applicable
OSHA: Occupational Safety and Health Administration
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SARA: Superfund Amendments and Reauthorization Act
SVHC: substance of very high concern
TRGS Technische Regeln fuerGefahrstoffe
TSCA: Toxic Substances Control Act
VOC: Volatile Organic Compounds
VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe
WGK: Wassergefaehrungsklasse

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

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method

Wording of the hazard statements under paragraph 2 and 3:

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H242 Heating may cause a fire.
- H301 Toxic if swallowed.
- 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.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

Further Information

Classification according EC regulation 1272/2008 (CLP): - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

Department issuing data sheet:

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

(The data of dangerous ingredients were taken from the last valid safety data sheet of the respective pre-supplier.)