

Safety data sheet

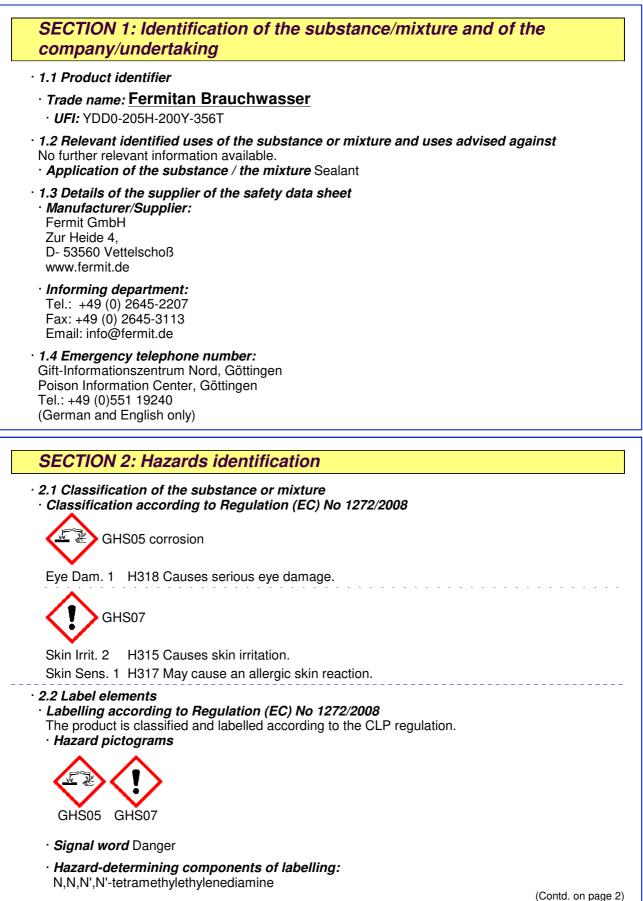
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according to 1907/2006/EC, Article 31

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Trade name: Fermitan Brauchwasser

	(Contd. from pa	age 1)
maleic acid		- J - /
 Hazard stater 	ments	
H315 Causes	skin irritation.	
H318 Causes	serious eye damage.	
H317 May cau	use an allergic skin reaction.	
· Precautionary	y statements	
P101	If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection/	
	hearing protection.	
P305+P351+P	P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove con	tact
	lenses, if present and easy to do. Continue rinsing.	
P501	Dispose of contents/container in accordance with local/regional/national/	
	international regulations.	
 Labelling of pa 	ackages where the contents do not exceed 125 ml	
· Hazard pictog	grams	
(上)() () () () () () () () () () () () ()		
GHS05 GH	S07	
 Signal word [Danger	
-		
	mining components of labelling:	
	amethylethylenediamine	
maleic acid		
Hazard stater		
	serious eye damage.	
	ise an allergic skin reaction.	
	to aquatic life with long lasting effects.	
Precautionary		
P101	If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	
P272	Contaminated work clothing should not be allowed out of the workplace.	
P280	Wear protective gloves.	
P280	Wear eye protection / face protection.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P305+P351+P	P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove con	tact
	lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER/doctor.	
P321	Specific treatment (see on this label).	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P501	Dispose of contents/container in accordance with local/regional/national/	
	international regulations.	
· 2.3 Other hazar		
 Results of PB1 	T and vPvB assessment	
· PBT: Not appl		
• vPvB : Not app		
	of endocrine-disrupting properties	
	es not contain substances with endocrine disrupting properties.	
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 Dangerous components: 		
CAS: 25852-47-5 Polymer	Poly(ethylene glycol) dimethacrylate	25 - 50%
CAS: 80-15-9 EINECS: 201-254-7 Index number: 617-002-00-8 Reg.nr.: 01-2119475796-19-X	a,α -dimethylbenzyl hydroperoxide Org. Perox. E, H242; Acute Tox. 3, H331; STOT RE 2, H373; Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312 Specific concentration limits: Skin Corr. 1B; H314: C≥ 10 % Skin Irrit. 2; H315: 3 % ≤ C < 10 % Eye Dam. 1; H318: C ≥ 3 % Eye Irrit. 2; H319: 1 % ≤ C < 3 % STOT SE 3; H335: C < 10 %	≥ 1 - < 2.5%
CAS: 99-97-8 EINECS: 202-805-4 Index number: 612-056-00-9 Reg.nr.: 01-2119956633-31-X	N,N-dimethyl-p-toluidine Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT RE 2, H373; Aquatic Chronic 3, H412	0 - < 2.5%
CAS: 110-16-7 EINECS: 203-742-5 Index number: 607-095-00-3 Reg.nr.: 01-2119488705-25-X	maleic acid ↑ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limit: Skin Sens. 1; H317: C ≥0.1 %	≥ 1 - < 2.5%
CAS: 110-18-9 EINECS: 203-744-6 Index number: 612-103-00-3	N,N,N',N'-tetramethylethylenediamine Flam. Liq. 2, H225; Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H332	≥ 1 - < 2.5%
CAS: 613-48-9 EINECS: 210-345-0	4-(diethylamino)toluene	0 - < 2.5%

• 4.1 Description of first aid measures

· General information

Remove contaminated clothing immediately.

If symptoms occur or in case of doubt consult a doctor.

After inhalation

Supply fresh air and call for doctor for safety reasons.

In case of unsteady breathing or breathing arrest induce artificial respiration.

In case of unconsciousness bring patient into stable side position for transport.

· After skin contact

Instantly wash with water and soap and rinse thoroughly.

Don't use solvents or thinners!

If skin irritation continues, consult a doctor.

After eye contact

Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.

In case of permanent aches and pains please go and see the doctor.

• After swallowing Rinse mouth and immediately consult physician.

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- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
 - · Suitable extinguishing agents
 - Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam. • For safety reasons unsuitable extinguishing agents Water with a full water jet.
- · 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
 Ensure adequate ventilation
 Do not inhale vapours.

 Avoid contact with the product.
 Evacuate personnel to safe area.
 6.2 Environmental precautions:
 Do not allow to enter drainage system, surface or ground water.
 Inform respective authorities in case product reaches water or sewage system.

• 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Ensure adequate ventilation. Immediately clean contaminated surfaces.

6.4 Reference to other sections
 See Section 7 for information on safe handling
 See Section 8 for information on personal protection equipment.
 See Section 13 for information on disposal.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling
 Ensure good ventilation/exhaustion at the workplace.
 Don't eat, drink or smoke while working.
 Avoid contact with impurities and incompatible substances (see capter 10).
 • Information about protection against explosions and fires:
 Keep ignition sources away - Do not smoke.

- · 7.2 Conditions for safe storage, including any incompatibilities
 - Storage
 - **Requirements to be met by storerooms and containers:** Ensure sufficient ventilation. • **Information about storage in one common storage facility:**

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis. Keep away from food, drink and animal feeding stuffs.

• *Further information about storage conditions:* Store in cool, dry conditions in well sealed containers. Storage between 5 and 25 °C.

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· 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

...

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs					
80-15-9 α,α -dimethylbenzyl hydroperoxide					
	DNEL (worker, long-term, sy	/stemic)	6 mg/m³ (human)		
99-97-8 N,N-dimethyl-p-toluidine					
Oral		•	2.37251 mg/kg bw/day (human)		
Dermal	DNEL (worker, long-term, sy	· · ·	1.18625 mg/kg bw/day (human)		
	DNEL (consumer, long-term	• •			
Inhalative	DNEL (worker, long-term, sy	· · ·	1.35233 mg/m³ (human)		
	DNEL (consumer, long-term	i, systemic)	0.3364 mg/m³ (human)		
	naleic acid				
Dermal	DNEL (worker, short-term, s	•	58 mg/kg bw/day (human)		
	DNEL (worker, long-term, sy	/stemic)	3.3 mg/kg bw/day (human)		
· PNECs					
80-15-9 α,	α -dimethylbenzyl hydrope	roxide			
PNEC aqu	ıa (freshwater)	0.003 mg/L (.)			
PNEC aqu	PNEC aqua (marine water)		0 mg/L (.)		
PNEC ST	P - Sewage Treatment Plant	0.35 mg/L (.)			
PNEC soil		0.003 mg/k	kg soil dw (.)		
PNEC sed	PNEC sediment (freshwater)		kg sedim. dw (.)		
PNEC sediment (marine water)		0.002 mg/kg sedim. dw (.)			
99-97-8 N,N-dimethyl-p-toluidine					
PNEC aqua (freshwater)		0.15259 m	g/L (.)		
PNEC aqua (marine water)		0.015259 mg/L (.)			
PNEC STP - Sewage Treatment Plant		4.2863 mg/L (.)			
PNEC soil		18.67677 mg/kg soil dw (.)			
PNEC sed	PNEC sediment (freshwater)		45.3777 mg/kg sedim. dw (.)		
PNEC aqua (intermittent releases)		0.15259 mg/L (.)			
	naleic acid				
•	ia (freshwater)	0.0744 mg/L (.)			
PNEC STP - Sewage Treatment Plant		3.33 mg/L (.)			
PNEC sediment (freshwater)		-	/kg sedim. dw (.)		
· · · · · · · · · · · · · · · · · · ·		0.744 mg/L			
• Additional information: The lists that were valid during the compilation were used as basis.					

· 8.2 Exposure controls

 Individual protection measures, such as personal protective equipment General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Take off all contaminated clothing immediately. Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

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• Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Hand protection



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR

Eye/face protection



Tightly sealed safety glasses.

SECTION 9: Physical and chemical properties

· Physical state	Fluid	
· Colour:	According to product specification	
· Odour:	Characteristic	
Melting point/freezing point:	Not determined	
 Boiling point or initial boiling point and 		
boiling range	Not determined	
· Flash point:	> 100 °C	
SADT		
· Solubility		
· Water:	Insoluble	
· Density and/or relative density		
· Density	Not determined	
,		
· Relative density	>1	
9.2 Other information		
Appearance:		
· Form:	Viscous	
· Important information on protection of	100000	
health and environment, and on safety. • Self-inflammability:	Product is not selfigniting.	

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· Explosive properties:	Product is not explosive.
· Information with regard to physical hazard	1
classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
• Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
· Substances and mixtures, which emit	
flammable gases in contact with water	Void
· Oxidising liquids	Void
• Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- *Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- 10.5 Incompatible materials:

Vigorous reactions when in contact with reducing agents, acids, bases, heavy metal compounds and polymerization accelerators.

Strong UV-radiation.

Incompatible substances can cause an exothermic polymerization reaction.

• 10.6 Hazardous decomposition products: Possible in traces.

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.

· LD/LC50 values that are relevant for classification:

80-	15-9 α,	,α -dim	ethyl	benz	yl I	hydroperoxide	
0	1		000	//	1	1)	

Oral	LD50	382 mg/kg (rat)	

Inhalative LC50 220 mg/l/4h (rat)

- 99-97-8 N,N-dimethyl-p-toluidine
- Oral LD50 139 mg/kg (mouse)

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110-16-7 maleic acid
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- Oral LD50 2,870 mg/kg (rat)
- · Skin corrosion/irritation

Causes skin irritation.

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· Serious eye damage/irritation

- Causes serious eye damage.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity* Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- 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.
- 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

80-15-9 α,α -dimethylbenzyl hydroperoxide

EC50 18.84 mg/l/48h (Daphnia magna)

LC50 3.9 mg/l/96h (Oncorhynchus mykiss)

- 12.2 Persistence and degradability No further relevant information available.
- · Other information: There are no data available about the preparation.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

· Additional ecological information:

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

The waste code numbers mentioned are recommendations based on the probable use of the product.

· Europea	in waste catalogue
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
HP4	Irritant - skin irritation and eye damage
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HP14 Ecotoxic

· Uncleaned packagings:

· Recommendation:

Dispose of packaging according to regulations on the disposal of packagings. Non contaminated packagings can be used for recycling.

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

SECTION 14: Transport inform	nation			
14.1 UN number or ID number · ADR/RID, ADN, IMDG, IATA	Void			
14.2 UN proper shipping name · ADR/RID, ADN, IMDG, IATA	Void			
14.3 Transport hazard class(es)				
· ADR/RID, ADN, IMDG, IATA · Class	Void			
· 14.4 Packing group · ADR/RID, IMDG, IATA	Void			
• 14.5 Environmental hazards: • Marine pollutant:	No			
14.6 Special precautions for user	Not applicable.			
14.7 Maritime transport in bulk accordir IMO instruments	<i>ng to</i> Not applicable.			
• Transport/Additional information:	Not dangerous according to the above specifications.			
· UN "Model Regulation":	Void			

SECTION 15: Regulatory information

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

Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

• Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

National regulations

· Water hazard class:

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is contained.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This safety data sheet meets the requirements of Regulation (EU) 2015/830 and 2020/878 amending Annex II of Regulation (EC) 1907/2006.

· Relevant phrases

H225 Highly 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.

H318 Causes serious eye damage.

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.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

• Department issuing data specification sheet:

DEKRA This Safety Data Sheet has been drawn up in cooperation with: DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,

phone: (+49) 511 42079 - 0, reach@dekra.com.

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• Version number of previous version: 5

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative

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Flam. Liq. 2: Flammable liquids – Category 2 Org. Perox. E: Organic peroxides – Type E/F Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2	(Contd. from page 10)	
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	Ell -	