

Safety Data Sheet

According to 1907/2006/EC, article 31

Version: 1

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

1.1 Trade name:

Gelbar Uhrglaskitt

For professional users

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

Application of the substance / the preparation adhesive

Uses advised against of the substance / the preparation -

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier

Bullnheimer & Co GmbH & Co KG
Im Tal 12
D- 86719 Augsburg

Phone: +49 (0) 821 80850-0
Telefax: +49 (0) 821 80850-94
E-Mail: info@bullnheimer.de
Web: http://www.bullnheimer.de

1.4 Emergency telephone number

Poison Info Center Berlin
24 hours service. Languages: german

Phone: +49 (0) 30 / 19240

1.5 Further informations obtainable from

Bullnheimer & Co GmbH & Co KG, Contact data see above

SECTION 2: Hazards information

2.1 Classification of the product/mixture according to Regulation (EC) No 1272/2006

Regulation (EC) No 1272/2008:

Flam. Liq. 2; H225, Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H336, Repr. 2; H 361d

2.2 Labelling of the product/mixture according to Regulation (EC) No 1272/2006

Hazard pictograms:



GHS02 GHS07 GHS08

Signal word:

Danger

Hazard

statements:

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H361d Suspected of damaging fertility or the unborn child.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P403+233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to local/regional/national/ international regulations.

2.3 Other hazards none

SECTION 3: Composition/information on ingredients

3.1 Chemical characterization

Mixture of substances listed below with nonhazardous additions.

3.2 Hazardous ingredients

Ingredient:	EINECS:	CAS:	INDEX-No.:	REACH-No.:	Concentration:	Classification: EC 1272/2008(CLP):
Ethyl Acetate	205-500-4	141-78-6	607-022-00-5	01-2119475103-46-xxxx	25 - 50 %	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
Acetone	200-662-2	67-64-1	606-001-00-8	01-2119471330-49-xxxx	25 - 50 %	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066
Butyl Acetate	204-658-1	123-86-4	607-025-00-1	01-2119485493-29-xxxx	10 – 25 %	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066
Toluene	203-625-9	108-88-3	601-021-00-3	01-2119471310-51-xxxx	2,5 – 10 %	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361d STOT SE 3; H336 STOT RE 2; H373 Asp. Tox. 1; H304
Ethanol	200-578-6	64-17-5	603-002-00-5	01-2119457610-43-xxxx	2,5 – 10 %	Flam. Liq. 2; H225
Cellulose nitrate		9004-70-0	603-037-00-6		10 – 25 %	Flam. Sol.1; H228

(Full text of H-phrases: see section 16.)

3.3 Additional informations

Contains no SVHC substances

SECTION 4: First aid measures

4.1 Description of first aid measures

General informations Remove any clothing soiled by the product immediately.

After inhalation Ensure supply of fresh air. In case of respiratory arrest or irregular breathing artificial respiration or oxygen respiration and seek medical advice immediately. In case of unconsciousness place and transport in stable side position.

After skin contact Remove any clothing soiled by the product immediately. Wash off with plenty of water. If skin irritation persists, consult a doctor.

After eye contact	After contact with the eyes, immediately rinse the open eyes 10 to 15 minutes under running water. Seek medical advice (oculist).
After swallowing	Give water to drink in small sips (dilution effect). Do not induce vomiting. Seek medical advice.
Self protection	First responders: take care of self-protection

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: 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 General informations

Extinguishing measures in accordance to the surrounding conditions. To protect persons and to cool endangered containers using water spray. Remove undamaged containers from the danger zone if possible without risk.

5.2 Extinguishing media:

suitable: Water-spray, Carbon dioxide (CO₂), foam, extinguishing powder
Unsuitable: Water with full jet

5.3 Special hazards arising from the substance or mixture

Formation of explosive vapor / air mixture may be possible.
Vapors are heavier than air and may spread along floors.
In case of fire may form: carbon oxides (CO, CO₂), nitrogen oxides (NO_x)

5.4 Advice for firefighters

Protective equipment
Wear full protective suit with self-contained breathing apparatus.

Additional informations

Collect contaminated fire fighting water separately. Do not allow to enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Do not inhale vapors. Wear personal protective equipment. Remove persons to safety. Keep unprotected persons away. Keep ignition sources away. Do not smoke. Avoid sparks.

6.2 Environment precautions

Avoid penetration into drains, pits, cellars, water. Inform respective authorities in case of seepage into water courses or sewage system. Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, fused silica, universal-binder). Contaminated material has to be disposed as waste (see section 13). Clean contaminated surface thoroughly.

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 disposal information

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Keep containers/bottles tightly closed. Avoid heat and direct sunlight. Open and handle container with care. Ensure good ventilation/exhausting at the workplace. Do not breathe vapours/aerosols. Avoid contact with eyes and skin.

Technical measures

Ensure good ventilation / exhaustion at the stores and work areas.
Take measures to prevent electrostatic charging.

Information about fire- and explosion protections

Usual measures for preventive fire protection. Take measures to prevent electrostatic charging.

Additional information

None

7.2 Conditions for safe storage including any incompatibilities

Technical measures and conditions

Ensure good ventilation. Keep container tightly closed and store in a cool, well-ventilated place. Keep away from direct sunlight and other heat and ignition sources.

Packaging materials

Keep containers/bottles tightly closed. Use original containers/bottles only.

Requirements to be met by storerooms and receptacles

Store in cool, dry conditions. Observe official regulations on storage and handling of water hazardous substances.

Information about storage in one common storage facility

Keep away from foodstuffs, beverages and feed. Away from sources of ignition and heat.

Further information about storage conditions

Attention should be paid to the guidelines of the VbF and the related technical regulations of the TRbF.

Storage class: 3 flammable liquids

7.3 Specific end use(s)

No further informations available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

Occupational exposure limits:

Substance:	CAS:	Origin:	Occupational exposure limit value	Peak:	Remarks:
Ethyl Acetate (25-50%)	141-78-6	GESTIS Database	1500 mg/m ³ , 400 ml/m ³	2, (I)	DFG, Y
Acetone (25-50%)	67-64-1	GESTIS Database	1200 mg/m ³ , 500 ml/m ³	2, (I)	DFG, EU
Butyl Acetate (10-25%)	123-86-4	GESTIS Database	300 mg/m ³ , 62 ml/m ³	2, (I)	DFG, EU, Y
Toluene (2,5-10%)	108-88-3	GESTIS Database	190 mg/m ³ , 50 ml/m ³	4, (II)	DFG, EU, H, Y
Ethanol (2,5-10%)	64-17-5	GESTIS Database	960 mg/m ³ , 500 ml/m ³	2, (II)	DFG, Y

Additional information: The lists valid during the making were used as basis.

DNELs

141-78-6 Ethyl Acetate

Oral	DNEL (population)	4,5 mg/kg bw/day (Long-term - systemic-effects)
Dermal	DNEL (population)	37 mg/kg (Long-term-systemic-effects)
Dermal	DNEL (worker)	63 mg/kg (Long-term-systemic-effects)
Inhalativ	DNEL (worker)	1468 mg/m ³ (Acute - local-effects)
Inhalativ	DNEL (worker)	1468 mg/m ³ (Acute - systemic-effects)
Inhalativ	DNEL (worker)	734 mg/m ³ (Long-term - local-effects)
Inhalativ	DNEL (worker)	734 mg/m ³ (Long-term - systemic-effects)
Inhalativ	DNEL (population)	734 mg/m ³ (Acute - local-effects)
Inhalativ	DNEL (population)	734 mg/m ³ (Acute - systemic-effects)
Inhalativ	DNEL (population)	367 mg/m ³ (Long-term - local-effects)
Inhalativ	DNEL (population)	367 mg/m ³ (Long-term - systemic-effects)

67-64-1 Acetone

Oral	DNEL (population)	62 mg/kg (Long-term - systemic-effects)
Dermal	DNEL (population)	62 mg/kg (Long-term-systemic-effects)
Dermal	DNEL (worker)	186 mg/kg (Long-term-systemic-effects)
Inhalativ	DNEL (worker)	2420 mg/m ³ (Acute - local-effects)
Inhalativ	DNEL (worker)	1210 mg/m ³ (Long-term - systemic-effects)
Inhalativ	DNEL (population)	200 mg/m ³ (Long-term - systemic-effects)

123-86-4 Butyl Acetate

Dermal	DNEL (worker)	7 mg/kg bw/day (Long-term - systemic-effects)
Dermal	DNEL (population)	3,4 mg/kg bw/day (Long-term - systemic-effects)
Inhalativ	DNEL (worker)	960 mg/m ³ (Acute - systemic-effects)
Inhalativ	DNEL (worker)	960 mg/m ³ (Acute - local-effects)
Inhalativ	DNEL (worker)	480 mg/m ³ (Long-term - systemic-effects)
Inhalativ	DNEL (worker)	480 mg/m ³ (Long-term - local-effects)
Inhalativ	DNEL (population)	859,7 mg/m ³ (Acute - systemic-effects)
Inhalativ	DNEL (population)	859,7 mg/m ³ (Acute - local-effects)
Inhalativ	DNEL (population)	102,34 mg/m ³ (Long-term - systemic-effects)
Inhalativ	DNEL (population)	120,34 mg/m ³ (Long-term - local-effects)

108-88-3 Toluene

Oral	DNEL (population)	8,13 mg/kg bw/day (Long-term - systemic-effects)
Dermal	DNEL (worker)	384 mg/kg bw/day (Long-term-systemic-effects)
Dermal	DNEL (population)	226 mg/kg (Long-term-systemic-effects)
Inhalativ	DNEL (worker)	192 mg/m ³ (Long-term - systemic-effects)
Inhalativ	DNEL (worker)	192 mg/m ³ (Long-term - local-effects)
Inhalativ	DNEL (worker)	384 mg/m ³ (Acute - systemic-effects)
Inhalativ	DNEL (worker)	384 mg/m ³ (Acute - local-effects)
Inhalativ	DNEL (population)	56,5 mg/m ³ (Long-term - systemic-effects)
Inhalativ	DNEL (population)	226 mg/m ³ (Acute - local-effects)
Inhalativ	DNEL (population)	226 mg/m ³ (Acute - systemic-effects)

64-17-5 Ethanol

Oral	DNEL (population)	87 mg/kg bw/day (Long-term - systemic-effects)
Dermal	DNEL (worker)	343 mg/kg bw/day (Long-term-systemic-effects)
Dermal	DNEL (population)	206 mg/kg bw/day (Long-term-systemic-effects)
Inhalativ	DNEL (worker)	1900 mg/m ³ (Acute - local-effects)
Inhalativ	DNEL (worker)	950 mg/m ³ (Long-term - systemic-effects)
Inhalativ	DNEL (population)	950 mg/m ³ (Acute - local-effects)
Inhalativ	DNEL (population)	114 mg/m ³ (Long-term - systemic-effects)
Inhalativ	DNEL (worker)	14 mg/m ³ (Long-term - local-effects)

PNEC-Werte

141-78-6 Ethyl Acetate

Aquatic compartment - freshwater 0,26 mg/L

Aquatic compartment - marine water 0,026 mg/L

Aquatic compartment - sediment in freshwater 1,25 mg/kg

Aquatic compartment - sediment in marine water 0,125 mg/kg

Aquatic compartment - water, intermittent releases 1,65 mg/L

Sewage treatment plant 650 mg/L

Terrestrial compartment – soil 0,24 mg/kg (-)

67-64-1 Acetone

Aquatic compartment - freshwater 10,6 mg/L

Aquatic compartment - marine water 1,06 mg/L

Aquatic compartment - sediment in freshwater 30,4 mg/kg

Aquatic compartment - sediment in marine water 3,04 mg/kg

Aquatic compartment - water, intermittent releases 21 mg/L

Sewage treatment plant - 100 mg/L

Terrestrial compartment – soil 29,5 mg/kg (-)

123-86-4 Butyl Acetate

Aquatic compartment - freshwater 0,18 mg/L

Aquatic compartment - marine water 0,018 mg/L

Aquatic compartment - sediment in freshwater 0,981 mg/kg

Aquatic compartment - sediment in marine water 0,0981 mg/kg

Sewage treatment plant – 35,8 mg/L

Terrestrial compartment – soil 0,0903 mg/kg

108-88-3 Toluene

Aquatic compartment - freshwater 0,68 mg/L

Aquatic compartment - sediment in freshwater 16,39 mg/kg

Sewage treatment plant – 13,61 mg/L

Terrestrial compartment – soil 2,89 mg/kg

64-17-5 Ethanol

Aquatic compartment - freshwater 0,96 mg/L

Aquatic compartment - marine water 0,79 mg/L

Aquatic compartment - sediment in freshwater 3,6 mg/kg

Aquatic compartment - sediment in marine water 2,9 mg/kg

Sewage treatment plant – 580 mg/L

Terrestrial compartment – soil 0,63 mg/kg

Ingredients with biological limits

67-64-1 Acetone

Limit: 80 mg/l Parameter: Acetone

Test material: urine

Sampling date: end of exposition or shift

Additional information: The lists valid during the making were used as basis.**8.2 Exposure controls****General protective and hygiene measures**

Technical measures and the application of suitable work processes should be given priority over the use of personal protective equipment.

The personal protective equipment must be defined depending on the quantities and concentration of hazardous substances in the workplace. (Risk assessment)

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and the end of work. Store protective clothing separately. Avoid contact with eyes and skin. Do not breathe vapours/aerosols.

Personal protective equipment

Minimum standards for protective measures when handling working substances are listed in TRGS 500.

Breathing equipment

Continuously respected workplace exposure limits and other limits respiratory protection normally is not required.

Exceeding the minimum triggering level --> breathing filter apparatus

In case of brief exposure or low pollution use breathing filter apparatus. (Face mask according to DIN EN 136) with filter type AX (according DIN EN 14387). In case of intensive or longer exposure use breathing apparatus that is independent of circulating air (according DIN EN 137).

Protection of hands

Chemical-resistant protective gloves (according EN 374-3:2003)

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 for the product / the preparation / the chemical mixture can be discharged. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

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

Eye protection

Tightly fitting safety glasses according DIN EN 166.

Body protection

Protective clothing in accordance with DIN EN 13688:2013. Chemical resistant safety shoes or boots according DIN EN 13832-1:2006. If skin contact is possible, wear impenetrable protective clothing against this substance according DIN EN 13034:2005.

Environmental exposure controls

see section 7. There are no further action is required.

Consumer exposure control

see section 7. There are no further action is required.

8.3 Exposure scenario

none

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

Form:	Liquid
Color:	Colorless - yellowish
Odour:	ester like

Safety relevant basic data

	Parameter	Value	Unit	Remark
Density:	at 20°C	approx. 0,9	g/cm ³	
pH:				No data available
Melting point / -range:				No data available
Initial boiling point/boiling range		62	°C	No data available
Flashpoint		-1	°C	Open cup
Ignition properties:				No data available
Lower ignition limits				No data available
Upper igniton limits				No data available
Explosiv properties				Product is not explosive. However, formation of explosive air/steam mixtures is possible.
Lower explosive limits		1,2	Vol.-%	Lower limit of single ingredient
Upper explosive limits		15,0	Vol.-%	Upper limit of single ingredient
Auto-ignition temperature				Products has no auto-ignition properties
Decomposition temperature				No data available
Oxidising properties				No data available
Vapour pressure				No data available
Vapour density				No data available
Evaporation rate				No data available
Solubility in water				Not miscible
Partition coefficient n-octanol/water				No data available
Viscosity:	at 20°C	approx.	mPa*s	Rotary viscosimeter
		200		
Value of solvents:				
- organic solvents		84	%	

9.2 Additional information

No further relevant information available.

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

No further relevant information available.

10.2 Chemical Stability

The product is stable under normal conditions.

10.3 Possibility of hazardous reactions

No further relevant information available.

10.4 Conditions to avoid

Heating

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

In case of fire may form: carbon oxides (CO, CO₂), nitrogen oxides (NO_x)

10.7 Additional information

No further relevant information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

No data available for the mixture.

Acute Toxicity

Substance:	CAS.:	Toxikological ngaben
Ethyl Acetate	141-78-6	Acute Toxicity, oral LD50: 5620 mg/kg (Rat) Acute Toxicity, dermal LD50: >18000 mg/kg (Rabbit) Acute Toxicity, inhalative LC50/8 h: 5,86 mg/l (Rat)
Acetone	67-64-1	Acute Toxicity, oral LD50: 5800 mg/kg (Rat) Acute Toxicity, dermal LD50: >15800 mg/kg (Rabbit) Acute Toxicity, inhalative LC50/4 h: 76 mg/l (Rat)
Butyl Acetate	123-86-4	Acute Toxicity, oral LD50: 10760 mg/kg (Rat) Acute Toxicity, dermal LD50: >5000 mg/l (Rabbit) Acute Toxicity, inhalative LC50/4 h: >21 mg/l (Rat)
Toluene	108-88-3	Acute Toxicity, oral LD50: 636 mg/kg (Rat) Acute Toxicity, dermal LD50: 12200 mg/l (Rabbit) Acute Toxicity, inhalative LC50/4 h: 28,1 mg/l (Rat)
Ethanol	64-17-5	Acute Toxicity, oral LD50: 10470 mg/kg (Rat) Acute Toxicity, inhalative LC50/4 h: 124,7 mg/l (Rat)
Cellulose nitrate	9004-70-0	Acute Toxicity, oral LD50: >5000 mg/kg (Rat)

Datas form Gestis database

11.2 Primary irritant effect

On the skin

Repeated exposure may cause skin dryness or cracking

On the eye

Causes eye irritations.

After inhalation

No data available.

11.3 Sensitisation

No sensitizing effects known.

11.4 Toxicity at repeated exposure

Specific target organ toxicity – single exposure

Target organs: central nervous system

May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure

Target organs: central nervous system

May cause damage to organs prolonged or repeated exposure.

11.5 CMR-effects

Carcinogenity

No effects known.

Mutagenicity

No effects known.

Reproductiv toxicity

Suspected of damaging fertility or the unborn child.

11.6 General remarks

No further relevant information available.

Practical experience

There is no information available.

Other observations

There is no information available.

Additional information

No further relevant information available.

SECTION 12: Ecological information**12.1 Information on toxicological effects**

No data available for the mixture.

Ecotoxicity

Substance:	CAS:	Ecotoxicity
Ethyl Acetate	141-78-6	LC50/96 h: 230 mg/l (Oncorhynchus mykiss) EC50/48 h: 717 mg/l (Daphnia magna) EC50/48 h: 3300 mg/l (Scenedesmus subspicatus) NOEC : 2,4 mg/l (Daphnia magna) (21d; DIN 38412, part 11) NOEC/72h: >100 mg/l (Desmodemus subspicatus) (OECD 201)
Acetone	67-64-1	LC50/96 h: 5540 mg/l (Oncorhynchus mykiss) LC50/96 h: 11000 mg/l (Albumus albumus) LC50/48 h: 8800 mg/l (Daphnia magna) NOEC/28 d: 2212 mg/l (Daphnia pulex) NOEC/0,5 h: 1000 mg/l (Belebtschlamm, OECD 209) NOEC/ 96 h: 430 mg/L (algae)
Butyl Acetate	123-86-4	LC50/96 h: 62 mg/l (Leuciscus idus) LC50/96 h: 18 mg/l (Pimephales promelas) LC50/96 h: 62 mg/l (Danio rerio) EC50/48 h: 44 mg/l (Daphnia magna) EC50/72 h: 675 mg/l (Scenedesmus subspicatus) NOEC/72h: 200 mg/l (Desmodemus subspicatus)
Toluene	108-88-3	LC50/96 h: 5,8 mg/l (Oncorhynchus mykiss) EC50/48 h: 6 mg/l (Daphnia magna) IC50/72 h: 12 mg/l (Pseudokirchnerilla subcapitata) NOEC/72h: 456 mg/l (Entosiphon sulcatum)
Ethanol	64-17-5	LC50/48 h: 8140 mg/l (Leuciscus idus) EC50/48 h: >10000 mg/l (Daphnia magna) EC50/72 h: 275 mg/l (Chlorella vulgaris)
Cellulose nitrate	9004-70-0	LC50/96 h: >5000 mg/l (Brachydanio rerio) OECD 203 EC50/48 h: >10000 mg/l (Daphnia magna) OECD 202 EC50/78 h: >10000 mg/l (-) OECD 201

Data is from the Gestis substance database

12.2 Persistence and degradability

No further relevant information available

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

The product does not meet the criteria for classification as PBT or vPvB.

12.6 Other adverse effects

No further relevant information available

12.7 Additional ecological information

Water hazard class 1 (German Regulation)(Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

12.8 Additional information

No further relevant information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Chemicals must be disposed of in compliance with the respective national regulations.

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

Waste disposal key number

Since 01.01.1999 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

Uncleaned packagings

Disposal must be made according to official regulations. Packagings that may not be cleansed are not to be disposed in the same manner as the product.

SECTION 14: Transport informations

14.1 UN-Number

ADR, IMDG, IATA UN 1133

14.2 Proper shipping name

ADR: 1133 ADHESIVES, containing flammable liquids

IMDG: ADHESIVES, containing flammable liquids

IATA: ADHESIVES, containing flammable liquids

14.3 Transport hazard class(es)

ADR:

Class: 3 (F1) Flammable liquids

Label: 3

IMDG, IATA:

Class: 3 Flammable liquids

Label: 3

14.4 Packaging group

ADR, IMDG, IATA: III

14.5 Environmental hazards

Product contains environmental hazards: -

Marine pollutant: no

Special marking (ADR): -

14.6 Special precautions for user

Warning: flammable liquids

Danger code (Kemler): 30

EMS-Number: F-E, S-D

Segregation groups: -

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

Not applicable

14.8 Additional information

ADR:

Limited quantities (LQ): 5 L

Excepted quantities (EQ): Code E1 Maximum quantity per inner packaging: 30 ml
Maximum quantity per outer packaging: 1000 ml

Transport category: 3
Tunnel restriction code: D/E

IMDG:

Limited quantities (LQ): 5 L
Excepted quantities (EQ): Code: E1 Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN1133, ADHESIVES, containing flammable liquids, 3, III

SECTION 15: Regulatory information

15.1 Classification and labelling

Hazardous components for labeling

See section 3.2

Special instructions for the product

Only for professional users

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

EU-Regulations

1999/13/EG on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations

Not relevant

1005/2009/EG on Substances which damage the ozone layer

Not relevant

850/2004/EG on Persistent Organic Pollutants

Not relevant

689/2008/EG on the export and import of dangerous chemicals

Not relevant

648/2004/EG on detergents

Not relevant

1907/2006/EG - Restrictions according title VIII of Regulation

Not relevant

2012/18/EU (Seveso-Directive)

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

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t

National regulations

Must be observed

Storage class according VCI (German guideline)

Class 3 flammable liquids

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

none

15.3 Information about limitation of use

Employment restrictions concerning young persons must be observed (94/33/EU).

Employment restrictions concerning pregnant and nursing women must be observed.

15.4 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other informations**16.1 Hazard statements under section 3**

Complete wording of hazard statements and risk phrases (H-phrases) mentioned in section 3.

These phrases refer to the constituents. The labelling for this product is stated in section 2.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H228 Flammable solid.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H361d Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure

EUH066 Repeated exposure may cause skin dryness or cracking.

16.2 Training advice

Users of breathing apparatus must be trained.

16.3 Recommended restriction(s) of application

See section 1.

16.4 Additional 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.

16.5 Replacement documentaion

First issue

16.6 Origin of datas

Informations taken from reference works and literature as well as the instructions of the supplier.

16.7 Departement issuing MSDS

See section 1.5

16.8 Abbreviations and acronymesRID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the
International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport 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 Harmonized System of Classification and Labelling of Chemicals
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINECS: European List of Notified Chemical Substances
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
VCI: Verband der chemischen Industrie (German Chemical Industry Association, Germany)
VbF: Verordnung über brennbare Flüssigkeiten (Regulations for flammable liquids, Germany)
TRbF: Technische Regeln für brennbare Flüssigkeiten (Technical regulations for flammable liquids)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted no-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
SVHC: Substance of Very High Concern
PBT: **P**ersistent, **B**ioakkumulierend, **T**oxisch
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Flam. Sol. 1: Flammable solids, Hazard Category 1
Skin Irrit. 2: Skin corrosive/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity – single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity – repeated exposure, Hazard Category 2
Repr. 2: Reproductive toxicity, Category 2
Asp. Tox. 1: Aspiration hazard, Category 1

* Data compared to the previous issue altered.