



Trade name: Marabu-GlasArt 420, 15 ml Marabu-GlasArt 420, 15 ml

Version: 7 / GB

Date revised: 14.12.2015

Substance number: 130239420

Replaces Version: 6 / GB

Print date: 17.12.15

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

1.1. Product identifier

Marabu-GlasArt 420, 15 ml Marabu-GlasArt 420, 15 ml

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

Use of the substance/preparation

Paint

1.3. Details of the supplier of the safety data sheet

Address

Marabu GmbH & Co. KG

Asperger Strasse 4

71732 Tamm

Germany

Telephone no. +49-7141/691-0

Fax no. +49-7141/691-147

Information provided by / telephone Department product safety

E-mail address of person responsible PRSI@marabu.de

for this SDS

1.4. Emergency telephone number

(+49) (0)621-60-43333

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. 3	H226
STOT SE 3	H336

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements ***

H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition



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P271 sources. No smoking.
 P405 Use only outdoors or in a well-ventilated area.
 P501.9 Store locked up.
 Dispose of contents/container as problematic waste.

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

contains *** 1-Methoxy-2-propanol;Naphtha (petroleum), hydrotreated heavy

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures

Chemical characterization

Paint based on alkyd resins and on solvents

Hazardous ingredients ***

1-Methoxy-2-propanol

CAS No. 107-98-2
 EINECS no. 203-539-1
 Registration no. 01-2119457435-35
 Concentration >= 25 < 50 %

Classification (Regulation (EC) No. 1272/2008)
 STOT SE 3 H336
 Flam. Liq. 3 H226

Naphtha (petroleum), hydrotreated heavy

CAS No. 64742-48-9
 EINECS no. 919-857-5
 Registration no. 01-2119463258-33
 Concentration >= 10 < 20 %

Classification (Regulation (EC) No. 1272/2008)
 Asp. Tox. 1 H304
 Flam. Liq. 3 H226
 STOT SE 3 H336
 EUH066

2-Butoxyethyl acetate

CAS No. 112-07-2
 EINECS no. 203-933-3
 Registration no. 01-2119475112-47
 Concentration >= 1 < 10 %

Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H332
 Acute Tox. 4 H312
 Acute Tox. 4 H302

C.I.Solvent Yellow 81 (13900.1)

CAS No. 94276-33-2
 EINECS no. 304-519-6
 Concentration >= 1 < 2,5 %

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



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Aquatic Chronic 2 H411

Hexanoic acid, 2-ethyl-, zinc salt, basic

CAS No. 85203-81-2

EINECS no. 286-272-3

Registration no. 01-2119979093-30

Concentration >= 0,1 < 1 %

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

Eye Irrit. 2 H319

Repr. 2 H361d

Aquatic Chronic 3 H412

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

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

After inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

After skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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 / treatment**

Treat symptomatically

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

Recommended: alcohol resistant foam, CO₂, powders, water spray/mist, Not be used for safety reasons: water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); dense black smoke; Nitrogen oxides (NO_x)

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or



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water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Avoid skin and eye contact. Avoid the inhalation of particulates and spray mist arising from the application of this mixture. Smoking, eating and drinking shall be prohibited in application area. For personal protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses.

Advice on protection against fire and explosion

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

Classification of fires / temperature class / Ignition group / Dust explosion class

Classification of fires	B (Combustible liquid substances)
Temperature class	T4

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Electrical installations/working materials must comply with the local applied technological safety standards. Storage rooms in which filling operations take place must have a conducting floor. Store in accordance with national regulation

Hints on storage assembly

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

Further information on storage conditions

Observe label precautions. Store between 15 and 30 °C in a dry, well ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.



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7.3. Specific end use(s)

Paint

SECTION 8: Exposure controls/personal protection ***

8.1. Control parameters

Exposure limit values ***

1-Methoxy-2-propanol

List	EH40		
Type	WEL		
Value	375	mg/m ³	100 ppm(V)
Short term exposure limit	560	mg/m ³	150 ppm(V)
Skin resorption / sensibilisation: Sk; Status: 2011			

2-Butoxyethyl acetate

List	EH40		
Type	WEL		
Value	133		20 ppm(V)
Short term exposure limit	332		50 ppm(V)
Skin resorption / sensibilisation: Sk; Status: 2011			

Normal and branched chain alkanes, >=C7

List	EH40		
Value	1200	mg/m ³	

Cycloalkanes, >=C7

List	EH40		
Value	800	mg/m ³	
List	HTP		
Value			900 ppm(V)
Short term exposure limit		1200	
Maximum limit value: ppm			

Derived No/Minimal Effect Levels (DNEL/DMEL) ***

2-Butoxyethyl acetate

Reference substance	2-Butoxyethyl acetate		
Type of value	Derived No Effect Level (DNEL)		
Reference group	Worker		
Route of exposure	dermal		
Mode of action	Acute effects		
Concentration	102		mg/kg
Source	Literature value		

Type of value	2-Butoxyethyl acetate		
	Derived No Effect Level (DNEL)		
Reference group	Worker		
Route of exposure	inhalative		
Mode of action	Acute effects		
Concentration	775		mg/kg
Source	Literature value		

Type of value	2-Butoxyethyl acetate		
	Derived No Effect Level (DNEL)		
Reference group	Consumer		
Route of exposure	dermal		
Mode of action	Acute effects		
Concentration	27		mg/kg
Source	Literature value		

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Type of value 2-Butoxyethyl acetate
 Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure inhalative
 Concentration 499 mg/kg
 Source Literature value

Type of value 2-Butoxyethyl acetate
 Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure oral
 Mode of action Acute effects
 Concentration 18 mg/kg
 Source Literature value

Type of value 2-Butoxyethyl acetate
 Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 166 mg/kg
 Source Literature value

Type of value 2-Butoxyethyl acetate
 Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure dermal
 Mode of action Chronic effects
 Concentration 36 mg/kg
 Source Literature value

Type of value 2-Butoxyethyl acetate
 Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure inhalative
 Mode of action Chronic effects
 Concentration 67 mg/kg
 Source Literature value

Type of value 2-Butoxyethyl acetate
 Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure oral
 Mode of action Chronic effects
 Concentration 4,3 mg/kg
 Source Literature value

Type of value 2-Butoxyethyl acetate
 Derived No Effect Level (DNEL)
 Reference group Worker
 Route of exposure dermal
 Mode of action Chronic effects
 Concentration 102 mg/kg
 Source Literature value

Type of value 2-Butoxyethyl acetate
 Derived No Effect Level (DNEL)

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Reference group	Worker	
Route of exposure	inhalative	
Mode of action	Chronic effects	
Concentration	133	mg/kg
Source	Literature value	

1-Methoxy-2-propanol

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	553,5	mg/m ³

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	50,6	mg/person/ d

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	369	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	18,1	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	43,9	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	3,3	mg/kg/d

Naphtha (petroleum), hydrotreated heavy

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	300	mg/kg

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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	300	mg/kg

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	300	mg/kg

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	900	mg/m ³

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	1500	mg/m ³

Predicted No Effect Concentration (PNEC)

2-Butoxyethyl acetate

Reference substance	2-Butoxyethyl acetate	
Type of value	PNEC	
Type	Water	
Concentration	0,304	mg/l
Source	Literature value	

Type of value	2-Butoxyethyl acetate	
Type	PNEC	
Type	Aquatic	
Concentration	0,0304	g/l
Source	Literature value	

Type of value	2-Butoxyethyl acetate	
Type	PNEC	
Type	Sediment	
Concentration	2,03	mg/kg
Source	Literature value	

Type of value	2-Butoxyethyl acetate	
Type	PNEC	
Type	Marine sediment	
Concentration	0,203	mg/kg
Source	Literature value	

Type of value	2-Butoxyethyl acetate	
Type of value	PNEC	



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Type	Soil	
Concentration	0,68	mg/kg
Source	Literature value	

1-Methoxy-2-propanol

Type of value	PNEC	
Type	Freshwater	
Concentration	10	mg/l
Type of value	PNEC	
Type	Water	
Concentration	41,6	mg/kg
Type of value	PNEC	
Type	Sediment	
Concentration	41,6	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	4,17	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	2,47	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l

8.2. Exposure controls

Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.
 For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required. The breakthrough time must be greater than the end use time of the product.
 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. Always ensure that gloves are free from defects and that they are stored and used correctly.
 The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.
 Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection

Use safety eyewear designed to protect against splash of liquids.

Body protection

Cotton or cotton/synthetic overalls or coveralls are normally suitable.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid		
Colour	coloured		
Odour	solvent-like		
Odour threshold			
Remarks	No data available		
pH value			
Remarks	Not applicable		
Melting point			
Remarks	not determined		
Freezing point			
Remarks	not determined		
Initial boiling point and boiling range			
Value	appr. 120		°C
Pressure	1.013	hPa	
Source	Literature value		
Flash point			
Value	48		°C
Method	ASTM D 6450 (CCCFP)		
Evaporation rate (ether = 1) :			
Remarks	not determined		
Flammability (solid, gas)			
Not applicable			
Upper/lower flammability or explosive limits			
Lower explosion limit	appr. 0,7		%(V)
Upper explosion limit	appr. 13,7		%(V)
Source	Literature value		
Vapour pressure			
Value	appr. 8		hPa
Temperature	20	°C	
Method	calculated		
Vapour density			
Remarks	not determined		
Density			
Value	0,93		g/cm ³
Temperature	20	°C	
Method	DIN EN ISO 2811		
Solubility in water			
Remarks	partially miscible		
Partition coefficient: n-octanol/water			
Remarks	Not applicable		
Ignition temperature			
Value	appr. 200		°C
Source	Literature value		
Efflux time			
Value	< 40	to	75 s



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Temperature 20 °C

Method DIN 53211 4 mm

Explosive properties

evaluation no

Oxidising properties

evaluation None known

9.2. Other information**Other information**

The physical specifications are approximate values and refer to the used safety relevant component(s).

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

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4. Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products.

10.5. Incompatible materials

No hazardous reactions when stored and handled according to prescribed instructions.

10.6. Hazardous decomposition products

See chapter 5.2 (Firefighting measures - Special hazards arising from the substance or mixture).

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE > 2.000 mg/kg

Method calculated value (Regulation (EC) No. 1272/2008)

Acute oral toxicity (Components)**1-Methoxy-2-propanol**

Species rat

LD50 5200 mg/kg

Acute dermal toxicity

ATE > 2.000 mg/kg

Method calculated value (Regulation (EC) No. 1272/2008)

Acute dermal toxicity (Components)**1-Methoxy-2-propanol**

Species rabbit

LD50 14000 mg/kg

Acute inhalational toxicity

ATE > 20 mg/l

Administration/Form Vapors

Method calculated value (Regulation (EC) No. 1272/2008)

ATE > 5 mg/l



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Administration/Form Dust/Mist
Method calculated value (Regulation (EC) No. 1272/2008)

Aspiration hazard

No special hazards have to be mentioned.

Experience in practice

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Other information

There are no data available on the mixture itself.

The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly.

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

There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

Fish toxicity (Components)**1-Methoxy-2-propanol**

Species	golden orfe (<i>Leuciscus idus</i>)		
LC0	>	4600	mg/l
Duration of exposure		96 h	

Daphnia toxicity (Components)**1-Methoxy-2-propanol**

Species	Daphnia magna		
EC50		23300	mg/l
Duration of exposure		48 h	

Algae toxicity (Components)**1-Methoxy-2-propanol**

Species	Desmodesmus		
EC50	>	1000	mg/l
Duration of exposure		168 h	

Bacteria toxicity (Components)**1-Methoxy-2-propanol**

Species	activated sludge		
EC50	>	1000	mg/l

12.2. Persistence and degradability**General information**

No data available



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Biodegradability (Components)**1-Methoxy-2-propanol**

Value	90	%
Duration of test evaluation	28	d
Method	Readily biodegradable (according to OECD criteria) OECD 301 F	

12.3. Bioaccumulative potential**General information**

There are no data available on the mixture itself.

Partition coefficient: n-octanol/water

Remarks Not applicable

12.4. Mobility in soil**General information**

There are no data available on the mixture itself.

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

There are no data available on the mixture itself.

12.6. Other adverse effects**General information**

There are no data available on the mixture itself.

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

Do not allow to enter drains or water courses.

Wastes and emptied containers should be classified in accordance with relevant national regulation.

The European Waste Catalogue classification of this product, when disposed of as waste is

EWC waste code 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information contact your local waste authority.

Disposal recommendations for packaging

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Not emptied containers are hazardous waste (waste code number 150110).

SECTION 14: Transport information**Land transport ADR/RID****14.1. UN number**

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

Class 3

Label 3

14.4. Packing group

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Packing group III
Special provision 640E
Limited Quantity 5 l
Transport category 4

14.5. Environmental hazards

Tunnel restriction code D/E

Marine transport IMDG/GGVSee

14.1. UN number

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

Class 3

14.4. Packing group

Packing group III

14.5. Environmental hazards

no

Air transport ICAO/IATA

14.1. UN number

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

Class 3

14.4. Packing group

Packing group III

14.5. Environmental hazards

-

Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:
Always transport in closed containers that are upright and secure.
Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

no

SECTION 15: Regulatory information ***

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

Major-accident categories acc. 96/82/EC

Category 6 Flammable 5.000.000 kg 50.000.000 kg

VOC ***

VOC (EU) 34,56 % 321,4 g/l

Other information

The product does not contain substances of very high concern (SVHC).

Other information

All components are contained in the TSCA inventory or exempted.
All components are contained in the AICS inventory.
All components are contained in the PICCS inventory.



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All components are contained in the DSL inventory.
All components are contained in the ENCS inventory.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 2	Reproductive toxicity, 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. The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.