

Trade name :

Revision date : Print date : Marking paint 108 Markierungsfarbe 108 01.02.2023 01.02.2023

Version (Revision) :

8.0.0 (7.0.0)

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

1.1 Product identifier

Marking paint 108 Markierungsfarbe 108

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

Products Category [PC]

PC 9 - Coatings and paints, fillers, putties, thinners.

Uses advised against

There are no information about relevant identified uses of the product according to the Regulation (EC) No. 1907/2006 (REACH-Regulation), which are advised against. For using the product observe the information in the Technical data sheet of the product.

1.3 Details of the supplier of the safety data sheet

Supplier

Brillux GmbH & Co KG www.brillux.de

Street : Weseler Straße 401

Postal code/City: D - 48163 Münster

Telephone : +49 (0)251-7188-0

Telefax : +49 (0)251-7188-280

Information contact :

Electronic mail address of the well-informed person for safety data sheets:sdb@brillux.de

1.4 Emergency telephone number

Outside the business hours (9 a.m. to 5 p.m.): (Giftinformationszentrum-Nord, Göttingen, consultation in german or english language) Telephone: +49 (0)551-19240.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07) **Signal word** Warning **Hazard components for labelling** N-BUTYL ACETATE ; CAS No. : 123-86-4 **Hazard statements** H226 Flammable liquid and vapour.

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H336	May cause drowsiness or dizziness.		
Precautionary state	ments		
P102	Keep out of reach of children.		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
P261	Avoid breathing spray.		
P271	Use only outdoors or in a well-ventilated area.		
P312	Call a POISON CENTER or a doctor if you feel unwell.		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].		
P501	Dispose of contents/container to approved disposal company or local collection.		
Supplemental hazard information			
EUH066	Repeated exposure may cause skin dryness or cracking.		

Special rules for supplemental label elements for certain mixtures

EUH208 Contains FATTY ACIDS, C14-18 AND C16-18-UNSATD., MALEATED.May produce an allergic reaction.

2.3 Other hazards

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605. The product does not contain any substances, which fulfil the criteria for PBT or vPvB in accordance with the Annex XIII of the Regulation (EC) No 1907/2006 (REACH-Regulation).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description

Paint based on an acrylic resin; Composition:

Acrylic resin, titanium dioxide (depending on the shade), inorganic/organic coloured pigments (depending on the shade), calcium carbonate, silicates, ester, aromatic hydrocarbons and additives.

Hazardous ingredients

N-BUTYL ACETATE ; REACH No. : 01-2119485493-29 ; EC No. : 204-658-1; CAS No. : 123-86-4			
Weight fraction :	≥ 30 - < 40 %		
Classification 1272/2008 [CLP] :	Flam. Liq. 3 ; H226 STOT SE 3 ; H336 EUH066		

REACTION MASS OF ETHYLBENZENE AND XYLENE ; REACH No. : 01-2119486136-34 ; EC No. : 905-588-0

P] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312

Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

FATTY ACIDS, C14-18 AND C16-18-UNSATD., MALEATED ; REACH No. : 01-2119976378-19 ; EC No. : 288-306-2; CAS No. :

85711-46-2

Weight fraction : Classification 1272/2008 [CLP] :

≥ 0,1 - < 0,5 % Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Eye Irrit. 2 ; H319

Additional information

The used hydrocarbons contain no benzene or benzene in concentrations less than 0.1 percent by weight and fulfil therefore the default(handicap) of the remark P to the appendix VI of the order (EC) No. 1272/2008 (GHS order). For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures General information

Immediately remove all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical

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attention. In case of unconsciousness: lay on side - call a doctor. Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.

Following inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Call a doctor and tell him the exactly substance.

In case of skin contact

Take off immediately all contaminated clothes. Wash away with soap and water and rinse. Do NOT use solvents or thinners. If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical adivce if complaint continues.

Following ingestion

Drink water in small draught. Keep at rest. Do not induce vomiting. When swallowed immediately consult and show packing or label to physician.

4.2 Most important symptoms and effects, both acute and delayed

Potential symptoms: Headache, dizziness, giddiness, skin irritation and irritation to respiratory tract are possible. Allergic symptoms.

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 media

In case of fire: Use alcohol resistant foam, CO2, powders or water spray for extinction.

Unsuitable extinguishing media

In case of fire: Do not use waterjet for extinction.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters

Special protective equipment for firefighters

At a fire caused by the product a breathing apparatus with an independent source of air is to have ready and to use if necessary for the firefighting.

5.4 Additional information

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8. Keep away from ignition sources on account of the organic solvent content and air room well. Do not inhale vapours. Avoid contact with eyes and skin.

6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Holding polluted washing water back and disposing of duly.

6.3 Methods and material for containment and cleaning up

For cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous

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earth and place in container for disposal according to local regulations (see section 13). The areas concerned cleaning with a customary water based cleaning agent, not using organic solvents if possible.

6.4 Reference to other sections

See Section 7 for information on safe handling. You find information about the safety equipment of persons in the section 8, information about the refuse disposal in section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Ensure a good ventilation in room and working area. Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Only use the material in places where open light, fire and other flammable sources can be kept away. For personal protection see Section 8. Avoid contact with skin and eyes. Read label before use. Use only outdoors or in a well-ventilated area.

Measures to prevent fire

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Avoid concentrations which form ignitable or explosive vapour and air mixtures. Likewise, avoid any concentration of vapour above the MAC-valve. Keep away from ignition sources - No smoking. Ground/bond container and receiving equipment. Use explosion-proof pipes, electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Measures to prevent aerosol and dust generation

Do not breathe gas or spray.

Advices on general occupational hygiene

While working do not eat, drink or smoke. Wash hands and face before breaks and after work and take a shower if necessary. Immediately remove all contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Do not store the product in lounge room. Keep only in the original container. Keep out of the reach of children. Store in a well-ventilated place. Keep cool.

Hints on joint storage

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Store away from foodstuffs. Storage class (TRGS 510): 3

Further information on storage conditions

Keep container tightly sealed. Store at 5°-35°C. Containers should be kept dry and sealed.

7.3 Specific end use(s)

For using the product observe the information in the Technical data sheet of the product.

Industrial sector specific solutions

GISCODE : Product code in accordance with GISBAU (hazardous materials information system of the German professional associations of the building and construction industry) for colours and varnishes (GISCODE): BSL50

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

N-BUTYL ACETATE ; CAS No. : 123-86-4 Limit value type (country of origin) : TRGS 900 (D) 62 ppm / 300 mg/m³ Limit value :



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Peak limitation :	2(I)
Remark :	Y
Version :	02.07.2021
Limit value type (country of origin) :	
Limit value : Version :	150 ppm / 723 mg/m ³ 20.06.2019
Limit value type (country of origin) : Limit value :	50 ppm / 241 mg/m ³
Version :	20.06.2019
REACTION MASS OF ETHYLBENZENE	
Limit value type (country of origin) :	
Limit value :	100 ppm / 440 mg/m ³
Peak limitation :	4
Remark :	Xylol
Version :	01.10.1993
Limit value type (country of origin) :	
Limit value : Peak limitation :	20 ppm / 88 mg/m ³
Remark :	2(II) Ethylbenzol H, Y, DFG
Version :	01.10.1993
Limit value type (country of origin) :	STEL (EC)
Limit value :	200 ppm / 884 mg/m ³
Remark :	Ethylbenzol H
Version :	
Limit value type (country of origin) :	. ,
Limit value :	100 ppm / 442 mg/m ³
Remark : Version :	Ethylbenzol H
Remark	
	ctor 2 (II) according to the german TRGS 900.
	ntioned in the TRGS 900 for the supervision of AGW.
Biological limit values	
REACTION MASS OF ETHYLBENZENE	AND XYLENE
Limit value type (country of origin) :	TRGS 903 (D)
Parameter :	Xylene / Whole blood (B) / End of exposure or end of shift
Limit value :	0,15 mg/dl
Remark :	Xylol
Version :	01.10.1993
Limit value type (country of origin) : Parameter :	Methylhippuric (toluric) acid (all isomers) / Urine (U) / End of exposure or end of shift
Limit value :	2 g/l
Remark :	Xylol
Version :	01.10.1993
Limit value type (country of origin) :	TRGS 903 (D)
Parameter :	Ethylbenzene / Whole blood (B) / End of exposure or end of shift
Limit value :	1 mg/l
Remark :	Ethylbenzol
Version :	01.10.1993
Limit value type (country of origin) : Parameter :	RGS 903 (D) Mandelic acid plus phenylglyoxylic acid / Urine (U) / End of exposure or end of shift
Parameter : Limit value :	800 mg/g Creatinine
Remark :	Ethylbenzol
Version :	01.10.1993



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DNEL-/PNEC-values DNEL/DMEL N-BUTYL ACETATE ; CAS No. : 123-86-4 Limit value type : DNEL Consumer (systemic) Inhalation Exposure route : Exposure frequency : Lona-term Limit value : 102,34 mg/m³ DNEL/DMEL (Industrial) Limit value type : Exposure route : Inhalation Exposure frequency : Short-term Limit value : 96 mg/kg Limit value type : DNEL/DMEL (Industrial) Exposure route : Inhalation Exposure frequency : Long-term Limit value : 48 mg/m³ Limit value type : DNEL/DMEL (Industrial) Exposure route : Dermal Exposure frequency : Long-term Limit value : 7 mg/kg Limit value type : DNEL/DMEL (Industrial) Exposure route : Inhalation Exposure frequency : Long-term Limit value : 480 mg/m³ REACTION MASS OF ETHYLBENZENE AND XYLENE Limit value type : DNEL Consumer (local) Exposure route : Inhalation Exposure frequency : Long-term Limit value : $= 65,3 \text{ mg/m}^3$ Limit value type : DNEL Consumer (local) Exposure route : Inhalation Exposure frequency : Short-term $= 260 \text{ mg/m}^3$ Limit value : Limit value type : DNEL Consumer (systemic) Exposure route : Oral Exposure frequency : Long-term Limit value : = 1,6 mg/kg Assessment factor : 1 D DNEL Consumer (systemic) Limit value type : Exposure route : Inhalation Exposure frequency : Long-term Limit value : $= 14.8 \text{ mg/m}^3$ Limit value type : DNEL Consumer (systemic) Exposure route : Inhalation Exposure frequency : Short-term Limit value : = 260 mg/m³ Limit value type : DNEL worker (local) Exposure route : Inhalation Exposure frequency : Short-term Limit value : $= 289 \text{ mg/m}^3$ Limit value type : DNEL worker (local and systemic) Exposure route : Inhalation Exposure frequency : Long-term Limit value : $= 221 \text{ mg/m}^3$ Limit value type : DNEL worker (systemic)



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Exposuro routo :	Inhalation
Exposure route : Exposure frequency :	Long-term
Limit value :	$= 211 \text{ mg/m}^3$
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	$= 442 \text{ mg/m}^3$
Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	= 180 mg/kg
Assessment factor :	1 D
PNEC	10
N-BUTYL ACETATE ; CAS No. : 123-8	6-1
Limit value type :	PNEC (Aquatic, freshwater)
Exposure route :	Water (Including sewage plant)
Limit value :	0,18 mg/l
Limit value type :	PNEC (Aquatic, intermittent release)
Exposure route :	Water (Including sewage plant)
Limit value :	0,36 mg/l
Limit value type :	PNEC (Aquatic, marine water)
	Water (Including sewage plant)
Exposure route : Limit value :	0,018 mg/l
	, 5,
Limit value type :	PNEC (Sediment, freshwater) Soil
Exposure route : Limit value :	
	0,981 mg/kg PNEC (Sediment, marine water)
Limit value type :	Soil
Exposure route :	
Limit value :	0,0981 mg/kg
Limit value type :	PNEC soil
Exposure route :	Soil
Limit value :	0,0903 mg/kg
Limit value type :	PNEC (Sewage treatment plant)
Exposure route :	Water (Including sewage plant)
Limit value :	35,6 mg/l
REACTION MASS OF ETHYLBENZENE	
Limit value type :	PNEC (Aquatic, freshwater)
Exposure route :	Water (Including sewage plant)
Limit value :	0,327 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Exposure route :	Water (Including sewage plant)
Limit value :	= 0,327 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Exposure route :	Water (Including sewage plant)
Limit value tripe :	12,64 mg/kg PNEC (Sediment, marine water)
Limit value type :	
Exposure route :	Water (Including sewage plant)
Limit value :	= 12,64 mg/kg PNEC soil
Limit value type :	
Exposure route : Limit value :	Soil 2,31 mg/kg
Limit value : Limit value type :	
	PNEC (Sewage treatment plant)
Exposure route : Limit value :	Water (Including sewage plant)
	6,58 mg/l



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8.2 Exposure controls

Appropriate engineering 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 (=Occupational Exposure Limit), suitable respiratory protection must be worn. Observe data available of section 7.

Personal protection equipment

Eye/face protection

Use protection glasses in case of spattering.

Skin protection

Hand protection

At use as agreed a protective gloves from nitrile rubber with a material thickness 0,38 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: > = 60 min. By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

Body protection

Using protective clothing. If the product must sprayed, use a disposable protective suit.

Respiratory protection

Breathing protection equipment is not required in good ventilated places. A respiratory protection (combination filter A2-P3) is required by inadequate ventilation and by spray application. Do not breathe gas or spray.

General information

Avoid contact with eyes and skin. Immediately remove all contaminated clothing. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Ensure a good ventilation in room and working area. Do not breathe gas or spray.

Environmental exposure controls

The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : conformable to product designation.

Odour

ester

Safety characteristics

Melting point/freezing point :	(1013 hPa)		No data available	
Initial boiling point and boiling range :	(1013 hPa)		120 - 150	°C
Decomposition temperature :	(1013 hPa)		No data available	
Flash point :			25	°C
Auto-ignition temperature :		>	400	°C
Lower explosion limit :			0,8	Vol-%
Upper explosion limit :			7,5	Vol-%
Vapour pressure :	(50 °C)		45	hPa
Density :	(20 °C)		1,3 - 1,45	g/cm ³
Solvent separation test :	(20 °C)	<	3	%
Water solubility :	(20 °C)		practically insoluble	
рН :			not applicable	

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log P O/W :			No data available		
Flow time :	(20 °C)		No data available		DIN-cup 4 mm
Viscosity :	(20 °C)		thixotropic		
Kinematic viscosity :	(40 °C)	>	20,5	mm²/s	
Relative vapour density :	(20 °C)		No data available		
VOC-value :		max.	550	g/l	
Flammable liquids : Particle Characterics :	The product is ig not applicable	initable.			

9.2 Other information

Other physical and chemical data have not been determined.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangers connected by a possible reactivity of the product are known to proper handling and storage.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Vapours can form explosive mixtures with air.

10.4 Conditions to avoid

To avoid formation of ignitable vapour and air mixtures ensure good ventilation (inter alia extraction system). Keep away from frost, heat and direct sunlight.

Cleaning cloths saturated with solvent can ignite themselves. Therefore ensure safe disposal of waste.

10.5 Incompatible materials

No dangerous reaction known. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

No dangerous decomposition product are known if stored and handled correctly. When exposed to high temperatures or in case of fire hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen, may produced.

SECTION 11: Toxicological information

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

Acute toxicity

- Acute toxicity:
- Acute oral toxicity: No data available;
- Acute dermal toxicity: No data available;

- Acute inhalation toxicity: No data available.

Acute oral toxicity

Parameter :	ATEmix calculated
Exposure route :	Oral
Effective dose :	not relevant
Parameter :	LD50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route :	Oral
Species :	Rat
Effective dose :	10760 mg/kg
Parameter :	LD50 (REACTION MASS OF ETHYLBENZENE AND XYLENE)
Exposure route :	Oral
Species :	Rat
Effective dose :	3523 - 4000 mg/kg
Acute dermal toxicity	

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Parameter : ATEmix calculated Dermal Exposure route : Effective dose : 50000 mg/kg Parameter : LD50 (N-BUTYL ACETATE ; CAS No. : 123-86-4) Exposure route : Dermal Species : Rabbit Effective dose : > 14000 mg/kg LD50 (REACTION MASS OF ETHYLBENZENE AND XYLENE) Parameter : Dermal Exposure route : Species : Rabbit Effective dose : 12126 mg/kg Acute inhalation toxicity Parameter : ATEmix calculated Exposure route : Inhalation (vapour) Effective dose : 500 mg/l Parameter : LC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4) Exposure route : Inhalation Species : Rat Effective dose : 23,4 mg/kg Exposure time : 4 h LC50 (REACTION MASS OF ETHYLBENZENE AND XYLENE) Parameter : Exposure route : Inhalation (vapour) Species : Rat Effective dose : 10 - 20 mg/l Exposure time : 4 h

Corrosion

Irritation.

- To the skin: Repeated exposure may cause skin dryness or cracking.

- At the eye: May cause mild, short-lasting discomfort to eyes.

- Respiratory tract: Irritation of the respiratory tract possible.

Respiratory or skin sensitisation

The product contains sensitizing substances, which may produce an allergic reaction (see section 2 and 3).

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as human germ cell mutagenic, carcinogenic or human reproductive toxic (CMR effects). STOT-single exposure

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation, kidneys and liver damages, as well as leading the impairment of the central nervous system.

Symtoms and signs include headache: dizzines, fatique, muscular weakness, drowsiness and in extreme cases loss of consciouness.

The liquid splached in the eyes may cause irritation and reversible demage.

STOT-repeated exposure

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in nonallergic contact dermatitis and absorption through the skin.

Aspiration hazard

The product contains substances, which are classified as apiration toxicity, category 1 (May be fatal if swallowed and enters airways), in accordance to the Regulation (EC) No. 1272/2008 (CLP-Regulation) in there pure form. Based on available data the classification criteria according to Regulation (EC) No 1272/2008 [CLP] are not fulfilled.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605.

Other adverse effects



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This product is unlikely to harm health, given normal and proper handling and hygenic precautions.

Additional information

The product is classified in toxicological terms on the basis of the results of the calculation procedure outlined within the Regulation (EC) No 1272/2008 (CLP-Regualtion), listed in sections 2 and 3. At proper dealing and use as agreed the product does not cause any effects bad for health after our experiences and the information submitted to us.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity			
Acute (short-term) fish to	xicity		
Parameter :	LC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)		
Species :	Pimephales promelas (fathead minnow)		
Effective dose :	18 mg/l		
Exposure time :	96 h		
Parameter :	LC50 (REACTION MASS OF ETHYLBENZENE AND XYLENE)		
Species :	Acute (short-term) fish toxicity		
Evaluation parameter :	Oncorhynchus mykiss		
Effective dose :	= 2,6 mg/l		
Exposure time :	96 h		
Acute (short-term) toxicit	y to crustacea		
Parameter :	EC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)		
Species :	Daphnia magna (Big water flea)		
Effective dose :	44 mg/l		
Exposure time :	48 h		
Parameter :	LC50 (REACTION MASS OF ETHYLBENZENE AND XYLENE)		
Species :	Acute (short-term) toxicity to crustacea		
Evaluation parameter :	Daphnia magna		
Effective dose :	= 1 mg/l		
Exposure time :	24 h		
Acute (short-term) toxicit	y to algae and cyanobacteria		
Parameter :	EC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)		
Species :	Desmodesmus subspicatus		
Effective dose :	647,7 mg/l		
Exposure time :	72 h		
Parameter :	EL50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)		
Species :	Desmodesmus subspicatus		
Effective dose :	200 mg/l		
Parameter :	EC50 (REACTION MASS OF ETHYLBENZENE AND XYLENE)		
Species :	Scenedesmus capricornutum		
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria		
Effective dose :	= 2,2 mg/l		
Exposure time :	73 h		
Sewage treatment pla	ant		
Parameter :	Effects in sewage plants (REACTION MASS OF ETHYLBENZENE AND XYLENE)		
Inoculum :	Activated sludge		
Effective dose :	= 16 mg/l		
Exposure time :	28 D		
12.2 Persistence and degrad	dability		
-	but the potential of the product concerning his persistency and degradability.		
Biodegradation	······································		
Parameter :	Pindogradation / DEACTION MACE OF ETUVI DENIZENE AND VVI ENE)		
raidilletei :	Biodegradation (REACTION MASS OF ETHYLBENZENE AND XYLENE)		
	$P_{2} = 0.000 + 11 / 15$		

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ulum : Biodegradation uation parameter : Aerobic
radation rate : = 90 %
radation rate : = 90 % : duration : 28 D

12.3 Bioaccumulative potential

Bioconcentration factor (BCF) (REACTION MASS OF ETHYLBENZENE AND XYLENE) Bioconcentration factor (BCF)

Value ·

Parameter :

= 25.9These are not data available about the bio accumulation potential of the product.

12.4 Mobility in soil

These are not datas available about the potential of the product concerning his mobility in the ground. A penetrating into soil, waters and sewage system should be prevented.

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 Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605.

12.7 Other adverse effects

Acute or chronic damages to water organisms by the product in the aquatic environment are not expecting.

12.8 Additional ecotoxicological information

Avoid exposing into ground, waterways and drainage. The classification of the product is based on summation of classified components according to the Regulation (EC) No 1272/2008 (CLP-Regulation). See details in sections 2 and 3.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Dispose of contents/container to approved disposal company or local collection according to the local regulations. Packaging with not dry uped residues have to droped at official collecting sites. Packaging with dry uped residues can be disposed together with household garbage or building site garbage. Do not empty into waters or drains.

Waste codes/waste designations according to EWC/AVV

For the product:

Disposal-definition No.: 08 01 11* - Paint and varnish waste which contains organic solvents or other dangerous substances.

After intended use

Only empty packaging can be transfered to recycling. Uncleaned packaging must be disposed of in the same manner as the medium.

Waste codes/waste designations according to EWC/AVV

For the uncleaned packaging:

Disposal-definition No.: 15 01 10* - packaging containing residues of or contaminated by hazardous substances.

SECTION 14: Transport information

14.1 UN number

UN 1263

14.2 UN proper shipping name

Land transport (ADR/RID)

PAINT Sea transport (IMDG)



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PAINT		
Air transport (ICAO-TI / IATA-DGR) PAINT		
14.3 Transport hazard class(es)		
Land transport (ADR/RID)		
Class(es) :	3	
Classification code :	F1	
Hazard identification number (Kemler		
No.):	30	
Tunnel restriction code :	D/E	
Special provisions :	LQ 5 I · E 1 · Transport in containers with max. 450 litres contents are not subject to the regulations of ADR/RID.	
Hazard label(s) :	3	
Sea transport (IMDG)		
Class(es) :	3	
EmS-No. :	F-E / <u>S-E</u>	
Special provisions :	LQ 5 · E 1 · IMDG 2.3.2.5 (<= 450 l)	
Hazard label(s) :	3	
Air transport (ICAO-TI / IATA-DGR)		
Class(es) :	3	
Special provisions :	E 1	
Hazard label(s) :	3	
14.4 Packing group		
III		
14.5 Environmental hazards		
Land transport (ADR/RID): No		
Sea transport (IMDG): No		
Air transport (ICAO-TI / IATA-DGR) :	No	
14.6 Special precautions for user		
None		
14.7 Transport in bulk according to	Annex II of Marpol and the IBC Code	
Not relevant because the product in type of delivery does not transport in bulks according to the Internationa Maritime Organization (IMO) instruments.		

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use Restrictions on use Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions): Use restriction according to REACH annex XVII, no. : 3, 40 Other regulations (EU) Directive 2004/42/EC on the limitation of emissions of volatile organic compounds The product is not subject to the EU guideline 2004/42/EC about the limitation of the issues of brief organic connections due to the use of organic solvents in certain colours and varnishes. This product contains max. 550 g/l VOC. National regulations Water hazard class Classification according to AwSV - Class : 1 (Slightly hazardous to water)

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Additional information

The product is classified as a solid substance according to the criteria of the Penetrometer test (ADR, part 2, section 2.3.4) and also fulfils the criteria for solid substances according to the TRwS 779 number 2.1.1. Maternity regulations and Young Persons Employment Act are to take into account.

15.2 Chemical Safety Assessment

A chemical safety assessments was not carried out.

SECTION 16: Other information

16.1 Indication of changes

02. Label elements

16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des merchandises dangereuses par route) AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany) AOX: Adsorbable Organic halogen compounds ATEmix: Calculated acute toxicity estimate of mixture BCF: Bio-Concentration Factor CAS: Chemical Abstract Service CLP: Classification, Labelling and Packaging CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction CSR: Chemical Safety Report DNEL: Derived No Effect Level EC: European Commission EC50: Effective Concentration 50% ECHA: European Chemical Agency EEC: European Economic Community EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances EWC: European Waste Catalogue GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals IATA: International Air Transport Association ICAO: International Civil Aviation Organization IC50: Inhibition Concentration 50% IMDG Code: International Maritime Dangerous Goods Code IMO: International Maritime Organization LC50: Lethal concentration 50% LD50: Lethal Dose 50% LOAEL: Lowest Observed Adverse Effect Level LOEL: Lowest observable effect level MAK: Treshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG) MARPOL: Convention for the Preventation of Marine Pollution from Ships MVZ: molar ratio n.a.: Not applicable n.d.: Not determined n.r.: Not relevant NLP: No Longer Polymers NOAEC: No Observed Adverse Effect Concentration NOAEL: No Observed Adverse Effect Level NOEC: No Observed Effect Concentration NOEL: No Observed Effect Level **OEL:** Occupational Exposure Limit PBT: Persistent, bioaccumulative, toxic PNEC: Predicted No Effect Concentration RCP: Reciprocal calculation procedure



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REACH: Registration, Evaluation and Authorization of Chemical) RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer) STEL: Short-term Exposure Limit SVHC: Substance of Very High Concern TLV - TWA: Threshold Limit Value - Time Weighed Average VOC: Volatile Organic Compounds vPvB: Very persistent, very bioaccumulative. 16.3 Key literature references and sources for data None Classification for mixtures and used evaluation method according to regulation (EC) 16.4 No 1272/2008 [CLP] The evaluation of hazard information of the product was carried out in accordance to Annex I of the REGULATION (EC) No 1272/2008 (CLP Regulation). 16.5 Relevant H- and EUH-phrases (Number and full text) Flammable liquid and vapour. H226 H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. Causes skin irritation. H315 H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373

- May cause damage to organs through prolonged or repeated exposure.
- EUH066 Repeated exposure may cause skin dryness or cracking.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.