

Safety data sheet

(EC) 1907/2006 (REACH), Annex II, as amended by Regulation (EU) 2021/848

Date of revision: 05.08.2022
Date of previous issue: 30.06.2020
Version number 6 (replaces version 5)

Trade name: Epocoat 21 HB Comp. A

(Contd. of page 6)

· **Penetration time of glove material**

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

· **Eye/face protection**



Tightly sealed goggles

The eye flushing device should be located near the the paint work area.

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· Physical state	Fluid
· Colour:	Colourful
· Odour:	Strong
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	137 - 143 °C (1330-20-7 xylene)
· Flammability	Flammable.
· Lower and upper explosion limit	
· Lower:	1.1 Vol % (1330-20-7 xylene)
· Upper:	7 Vol % (1330-20-7 xylene)
· Flash point:	24 °C
· Ignition temperature:	385 °C (68512-30-1 Phenol, methylstyrenated)
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity at 40 °C	> 20.5 mm ² /s
· Dynamic:	Not determined.
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	6.7 - 8.2 hPa (1330-20-7 xylene)
· Density and/or relative density	
· Density at 20 °C:	1.5 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· **9.2 Other information**

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Change in condition	
· Evaporation rate	Not determined.

· **Information with regard to physical hazard classes**

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void

(Contd. on page 8)

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Version number 6 (replaces version 5)

Trade name: Epocoat 21 HB Comp. A

(Contd. of page 7)

· Flammable liquids	Flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No specific test data related to reactivity available for this product or its ingredients.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
In confined or poorly ventilated spaces solvent may form an explosive mixture with air.
- **10.3 Possibility of hazardous reactions**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **10.4 Conditions to avoid**
Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

25036-25-3 Epoxy resin (MW 700-1100)		
Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rabbit)
1330-20-7 xylene		
Oral	LD50	> 3,253 mg/kg (rat)
Dermal	LD50	12,126 mg/kg (rabbit)
Inhalative	LC50/4 h	27.124 mg/l (rat)
68512-30-1 Phenol, methylstyrenated		
Oral	LD50	> 2,000 mg/kg (rat) (OECD 423)
Dermal	LD50	> 2,000 mg/kg (rat) (OECD 402)
78-83-1 2-methylpropan-1-ol		
Oral	LD50	3,350 mg/kg (rat)
Dermal	LD50	2,460 mg/kg (rabbit)
100-41-4 ethylbenzene		
Oral	LD50	> 3,500 mg/kg (rat)
Dermal	LD50	> 15,400 mg/kg (rabbit)
Inhalative	LC50/4 h	> 17.629 mg/l (rat)

(Contd. on page 9)

Safety data sheet

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Version number 6 (replaces version 5)

Trade name: Epocoat 21 HB Comp. A

(Contd. of page 8)

107-98-2 1-methoxy-2-propanol		
Oral	LD50	4,016 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)
220926-97-6 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine		
Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)
Inhalative	LC50/4 h	3.56 mg/l (rat)
85711-46-2 Fatty acids, C14-18 and C16-18-unsatd., maleated		
Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)
108-31-6 maleic anhydride		
Oral	LD50	1,090 mg/kg (rat)
Dermal	LD50	2,620 mg/kg (rabbit)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Other information (about experimental toxicology):**
Exposure to component solvent vapour concentrations 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 the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Swallowing may cause nausea, diarrhea, vomiting, gastro-intestinal irritation and chemical pneumonia.
- **Additional toxicological information:**
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
Ethylbenzene may cause cancer to humans (carcinogenic, group 2B, IARC), but information available is insufficient for satisfactory estimate.
- **11.2 Information on other hazards**

Endocrine disrupting properties		
68512-30-1	Phenol, methylstyrenated	List II
556-67-2	octamethylcyclotetrasiloxane	List II, III

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

1330-20-7 xylene	
48-h EC50	165 mg/L (Daphnia magna)
96-h LC50	26.7 mg/L (Pimephales promelas)
48-h LC50	86 mg/L (Leuciscus idus melanotus)
68512-30-1 Phenol, methylstyrenated	
96-h LL50	25.8 mg/L (Fish)
48-h EL50	14 - 51 mg/L (Daphnia magna)
72-h EL50	15 mg/L (Algae)

(Contd. on page 10)

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Version number 6 (replaces version 5)

Trade name: Epocoat 21 HB Comp. A

(Contd. of page 9)

78-83-1 2-methylpropan-1-ol	
72-h EC50	593 - 1,799 mg/L (Algae)
48-h EC50	1.1 mg/L (Daphnia magna)
96-h LC50	1.43 mg/L (Fish)
100-41-4 ethylbenzene	
48-h EC50	7.2 mg/L (Daphnia magna)
96-h LC50	4.2 mg/L (Oncorhynchus mykiss)
107-98-2 1-methoxy-2-propanol	
48-h EC50	21.1 - 25.9 mg/L (Daphnia magna)
96-h LC50	1 - 20.8 mg/L (Fish)
220926-97-6 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	
72-h EC50	> 100 mg/L (Pseudokirchneriella subcapitata) (OECD 201)
48-h EC50	> 100 mg/L (Daphnia magna) (OECD 202)
96-h LC50	> 100 mg/L (Oncorhynchus mykiss) (OECD 203)
85711-46-2 Fatty acids, C14-18 and C16-18-unsatd., maleated	
72-h EC50	2.76 - 100 mg/L (Algae)
48-h EC50	0.53 - 100 mg/L (Daphnia magna)
96-h LC50	1.17 - 100 mg/L (Fish)
108-31-6 maleic anhydride	
72-h EC50	65.78 - 150 mg/L (Algae)
48-h EC50	42.81 - 330 mg/L (Daphnia magna)
96-h LC50	75 mg/L (Fish)

12.2 Persistence and degradability

Biodegradability:

Xylene: readily

Ethylbenzene: readily

1-methoxy-2-propanol: 96 % (28 d) -> readily

12.3 Bioaccumulative potential

Xylene: LogPow = 3,12 (low)

Ethylbenzene: LogPow = 3,15 (low)

2-methylpropan-1-ol: LogPow = 0,76 (low)

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

Uncleaned packaging:

Recommendation:

Empty, dry paint containers (hole made to the bottom) should be taken to collection centres for metallic paint packages. If this collecting/recycling centre doesn't exist, containers can be taken to a local dump pit. For more information contact your local waste disposal authorities or paint deliverer.

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Version number 6 (replaces version 5)

Trade name: Epocoat 21 HB Comp. A

(Contd. of page 10)

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1263
· 14.2 UN proper shipping name · ADR, IMDG, IATA	PAINT
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA	
	
· Class	3 Flammable liquids.
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number:	Warning: Flammable liquids. 30 F-E,S-E
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Transport category · Tunnel restriction code	5L 3 D/E
· IMDG · Limited quantities (LQ)	5L
· UN "Model Regulation":	UN 1263 PAINT, 3, III

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
· Directive 2012/18/EU
· Named dangerous substances - ANNEX I None of the ingredients is listed.
· 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
· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.
· REGULATION (EU) 2019/1148
· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.
· Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

(Contd. on page 12)

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Trade name: Epocoat 21 HB Comp. A

(Contd. of page 11)

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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

None of the ingredients is listed.

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H372 Causes damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

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Abbreviations and acronyms:

- Flam. Liq. 2: Flammable liquids – Category 2
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Resp. Sens. 1: Respiratory sensitisation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- Skin Sens. 1A: Skin sensitisation – Category 1A
- Skin Sens. 1B: Skin sensitisation – Category 1B
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- Asp. Tox. 1: Aspiration hazard – Category 1
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

*** Data compared to the previous version altered.**