

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : SCHÖNER WOHNEN pep up Härter für Grundierung für Renovierfarben 2490
Revision date : 14.05.2020 **Version (Revision) :** 2.0.0 (1.0.0)
Print date : 10.11.2020

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

1.1 Product identifier

SCHÖNER WOHNEN pep up Härter für Grundierung für Renovierfarben 2490

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

Relevant identified uses

Products Category [PC]

PC9 - 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 (manufacturer/importer/only representative/downstream user/distributor)

J. D. Flügger
www.schoener-wohnen-farbe.com

Street : Bredowstraße 12

Postal code/city : D - 22113 Hamburg

Telephone : 00800 35834400

Information contact :

Electronic mail address of the well-informed person for safety data sheets:sdb@schoener-wohnen-farbe.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]

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

2.2 Label elements

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

Hazard pictograms



Environment (GHS09) · Exclamation mark (GHS07)

Signal word

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Warning

Hazard components for labelling

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6
P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P261 Avoid breathing vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P391 Collect spillage.
P501 Dispose of contents/container to approved disposal company or local collection.

Special rules for supplemental label elements for certain mixtures

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards

Adverse environmental effects

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

Hardener based on epoxy resins.

Hazardous ingredients

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; REACH No. : 01-2119456619-26 ; EC No. : 500-033-5; CAS No. : 25068-38-6

Weight fraction : $\geq 80 - < 85$ %
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; REACH No. : 01-2119959496-2 ; EC No. : 221-453-2; CAS No. : 3101-60-8

Weight fraction : $\geq 20 - < 25$ %
Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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General information

In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove all contaminated clothing. In case of unconsciousness: lay on side - call a doctor. If unconscious no administration by mouth, storage in recovery position and seek medical advice. 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.

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 advice if complaint continues.

After 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: Skin and eye irritation 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

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

When extinguishing fires, use breathing apparatus with an independent source of air.

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

Keep no protective persons away, personal should wear protective clothings. Refer to protective measures listed in sections 7 and 8.

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

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For 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). 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

No special measures necessary in the case of regulation storage and handling. Ensure a good ventilation in room and working area. For personal protection see Section 8. Avoid contact with skin and eyes. Read label before use.

Measures to prevent fire

Cool endangered containers with water.

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

Keep container tightly in a dry, cool and good ventilated place. Do not store the product in lounge room. Keep only in the original container. Protect against frost. Keep out of the reach of children.

Hints on joint storage

Do not store together with oxidising substances. Store away from foodstuffs.

Storage class (TRGS 510) : 10

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 epoxy resin coating cloths (GISCODE): RE20.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL-/PNEC-values

DNEL/DMEL

Limit value type :	DNEL/DMEL (Consumer) (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	0,75 mg/kg
Limit value type :	DNEL/DMEL (Consumer) (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)

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Exposure route : Oral
Exposure frequency : Long-term
Limit value : 3,6 mg/kg
Limit value type : DNEL/DMEL (Consumer) (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)

Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 0,75 mg/kg
Limit value type : DNEL/DMEL (Professional) (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)

Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 8,3 mg/kg
Limit value type : DNEL/DMEL (Professional) (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)

Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 12,3 mg/kg
Limit value type : DNEL Consumer (local) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)

Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 0,00095 mg/cm²
Limit value type : DNEL Consumer (local) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)

Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 0,00095 mg/cm²
Limit value type : DNEL Consumer (local) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)

Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 11,7 mg/m³
Limit value type : DNEL Consumer (systemic) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)

Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 3,3 mg/kg
Safety factor : 1 D
Limit value type : DNEL Consumer (systemic) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)

Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 3,3 mg/kg
Safety factor : 1 D
Limit value type : DNEL Consumer (systemic) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)

Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 11,7 mg/m³
Limit value type : DNEL worker (local) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Dermal

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Exposure frequency : Short-term
Limit value : 0,0016 mg/cm²
Limit value type : DNEL worker (local) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 0,0016 mg/cm²
Limit value type : DNEL worker (local) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 19,6 mg/m³
Limit value type : DNEL worker (local) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 19,6 mg/m³
Limit value type : DNEL worker (systemic) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 5,6 mg/kg
Safety factor : 1 D
Limit value type : DNEL worker (systemic) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 5,6 mg/kg
Safety factor : 1 D
Limit value type : DNEL worker (systemic) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 19,6 mg/m³
Limit value type : DNEL worker (systemic) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 19,6 mg/m³

PNEC

Limit value type : PNEC (Consumer) (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)
Exposure route : Water (Including sewage plant)
Limit value : 10 mg/l
Limit value type : PNEC (Sediment, freshwater) (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)
Exposure route : Water (Including sewage plant)
Limit value : 0,5 mg/kg
Limit value type : PNEC (Sediment, marine water) (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)
Exposure route : Water (Including sewage plant)
Limit value : 0,5 mg/kg
Limit value type : PNEC (Aquatic, freshwater) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Water (Including sewage plant)

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Limit value : 0,0075 mg/l
Limit value type : PNEC Intermittierende Einleitung (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Water (Including sewage plant)
Limit value : 0,075 mg/l
Limit value type : PNEC (Aquatic, marine water) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Water (Including sewage plant)
Limit value : 0,00075 mg/l
Limit value type : PNEC (Sediment, freshwater) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Soil
Limit value : 33,54 mg/kg
Limit value type : PNEC (Sediment, marine water) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Soil
Limit value : 3,354 mg/kg
Limit value type : PNEC (Soil) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Air
Limit value : 11,4 mg/kg dw
Limit value type : PNEC (Sewage treatment plant) (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Water (Including sewage plant)
Limit value : 100 mg/l

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.
Observe data available of section 7.

Personal protection equipment

Eye/face protection

Use tightly fitting safety glasses.

Skin protection

Hand protection

At use as agreed a protective gloves from nitrile rubber, tested according to EN 374, 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: > = 8 h.

By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should be 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.

Respiratory protection

Breathing protection equipment is not required in good ventilated places. Use combination filter A1-P2 in unclear conditions and in confined spaces.

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 vapour.

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.

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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

Poor, characteristic.

Safety characteristics

Initial boiling point and boiling range :	(1013 hPa)	>	150	°C
Flash point :		>	135	°C
Auto-ignition temperature :		>	420	°C
Vapour pressure :	(50 °C)		not determined	
Density :	(20 °C)	approx.	1,06 - 1,1	g/cm ³
Solvent separation test :	(20 °C)	<	3	%
Water solubility :	(20 °C)		practically insoluble	
Flow time :	(20 °C)		not determined	DIN-cup 4 mm
Viscosity :	(20 °C)	approx.	1500	cPa.s
VOC-value :		max.	25	g/l

9.2 Other information

The mentioned VOC value refers to the mixture of the product, incl. harder, ready for use. 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

No dangerous reactions are known if stored and handled the product correctly.

Exothermic polymerization.

Heavy reactions with bases and other organic substances like alcohols and amines.

10.4 Conditions to avoid

Keep away from frost, heat and direct sunlight.

10.5 Incompatible materials

No dangerous reaction known.

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 toxicological effects

Acute toxicity

Acute toxicity:

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- 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 (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)
Exposure route : Oral
Species : Rat
Effective dose : > 2000 mg/kg
Parameter : LD50 (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Oral
Species : Rat
Effective dose : > 5000 mg/kg

Acute dermal toxicity

Parameter : ATEmix calculated
Exposure route : Dermal
Effective dose : not relevant
Parameter : LD50 (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg
Parameter : LD50 (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg

Acute inhalation toxicity

Parameter : ATEmix calculated
Exposure route : Inhalation (vapour)
Effective dose : not relevant
Parameter : LC50 (P-TERT-BUTYLPHENYL GLYCIDYL ETHER ; CAS No. : 3101-60-8)
Exposure route : Inhalation
Species : Rat
Effective dose : 3466 mg/l
Exposure time : 4 h

Corrosion

- Irritation:
- Skin contact: Skin irritation.
 - Eye contact: Causes serious eye irritation.

Respiratory or skin sensitisation

The product is labeled as skin sensitizing.

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

No risk expected.

STOT-repeated exposure

No risk expected.

Aspiration hazard

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No risk expected.

11.4 Other adverse effects

Other observations

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

11.5 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-Regulation), 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

Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 2 mg/l
Exposure time : 96 h

Acute (short-term) toxicity to crustacea

Parameter : EC50 (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)
Species : Daphnia magna (Big water flea)
Effective dose : 1,8 mg/l
Exposure time : 48 h

Chronic (long-term) toxicity to crustacea

Parameter : NOEC (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)
Species : Daphnia magna (Big water flea)
Effective dose : 0,3 mg/l
Exposure time : 21 D

Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : ErC50 (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)
Species : Selenastrum capricornutum
Effective dose : 11 mg/l
Exposure time : 72 h

Toxicity to microorganisms

Parameter : EC50 (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6)
Species : Bacteria toxicity
Effective dose : > 42,6 mg/l

12.2 Persistence and degradability

These are not data available about the potential of the product concerning his persistency and degradability.

12.3 Bioaccumulative potential

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

No information about the individual components is available either.

12.4 Mobility in soil

These are not datas available about the potential of the product concerning his mobility in the ground.

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A penetrating into soil, waters and sewage system should be prevented.

12.5 Results of PBT and vPvB assessment

This product does not contain any relevant substances which were classified as a PBT or vPvB-substance.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

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.
Avoid exposing into ground, waterways and drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

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

Waste code packaging

Disposal-definition No. (AVV-Code):

15 01 10 * packings which contain dangerous substances or are polluted by dangerous substances.

Waste treatment options

Appropriate disposal / Product

Dispose of contents/container to approved disposal company or local collection according to the local regulations. Do not dispose together with household garbage. Do not empty into waters or drains.

Appropriate disposal / Package

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

SECTION 14: Transport information

14.1 UN number

UN 3082

14.2 UN proper shipping name

Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)

Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)

Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 9
Classification code : M6
Hazard identification number (Kemler No.) : 90
Tunnel restriction code : -
Special provisions : LQ 5 I · E 1 · ADR : - (SP 375 <= 5 l/kg)
Hazard label(s) : 9 / N
Sea transport (IMDG)

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Class(es) : 9
EmS-No. : F-A / S-F
Special provisions : LQ 5 I · E 1 · IMDG : - (SP 2.10.2.7 <= 5 l/kg)
Hazard label(s) : 9 / N
Air transport (ICAO-TI / IATA-DGR)
Class(es) : 9
Special provisions : E 1 · IATA : - (SP A197 <= 5 l/kg)
Hazard label(s) : 9 / N

14.4 Packing group

III

14.5 Environmental hazards
Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

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 International Maritime Organization (IMO) instruments.

14.8 Additional information
The product when carried in packaging of max. 5 l or 5 kg, are not subject to any other provisions of ADR according to the amendment 375.
According to the transport regulations the product is labeling with the label 9 as also with the symbol "Fish and tree" and in packages > 5 ltr or > 5 kg.

SECTION 15: Regulatory information

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

EU legislation
Other regulations (EU)
Directive 2004/42/EC on the limitation of emissions of volatile organic compounds
Product sub-category and VOC limiting values in accordance with appendix II, letter A of the guideline:
Category j, type WB;
VOC limiting value of the category for 2010: 140 g/l.
This product contains max. 25 g/l VOC.
The mentioned VOC value refers to the mixture of the product, incl. harder, ready for use.

National regulations
Water hazard class (WGK)
Class : 2 (Obviously hazardous to water) Classification according to AwSV
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.

15.2 Chemical safety assessment
A chemical safety assessments was not carried out.

SECTION 16: Other information

16.1 Indication of changes

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None

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 marchandises 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 Prevention 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
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

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16.4 Classification for mixtures and used evaluation method according to regulation (EC) 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)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

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.
