

Material Safety Data Sheet

according to Regulation (EC) 1907/2006



Product name : 2K-EPO-Haftgrund (SORTE 5852)
Revision : 10.01.2008 **Version :** 7.0.0
Print date : 10.01.2008

01. Identification of the substance/preparation and of the company/undertaking

Product name

2K-EPO-Haftgrund (SORTE 5852)

Use of the substance / preparation

Solvent-based coating. Intended purpose see technical data sheet.

Manufacturer/Supplier

Brillux GmbH & Co
Industrielack
www.brillux.de/industrielack

Street/P.O.Box

Otto-Hahn-Straße 14

Country code/Postal code/Town/City

D-59423 Unna

Telephone / Telefax

+49 (0)2303 8805-0 / +49 (0)2303 8805-119

Emergency information

After the office hours:
(Advisory board for symptom of poisoning, Berlin)
Telephon: +49 (0)30 19240

Contact

industrielacke@brillux.de

02. Hazards identification

Hazard designation

Flammable. · Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · May cause sensitisation by skin contact. · Harmful by inhalation. · Irritating to eyes and skin.

Classification : R 10 · N ; R 51/53 · R 43 · Xn ; R 20 · Xi ; R 36/38

Additional information

This product is dangerous concerning EC-guideline 1999/45/EC.

03. Composition/information on ingredients

Hazardous components

REACTION PRODUCT:BISPHENOL A-(EPICHLORHYDRIN) ; CAS-No. : 25068-38-6

Percentage : 15 - 20 %

Classification : R 43 Xi ; R 36/38

XYLENE ; EC-No. : 215-535-7; CAS-No. : 1330-20-7

Percentage : 10 - 12,5 %

Classification : R 10 Xn ; R 20/21 Xi ; R 38

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; EC-No. : 265-199-0; CAS-No. : 64742-95-6

Percentage : 5 - 10 %

Classification : R 10 N ; R 51/53 Xn ; R 65 Xi ; R 37 R 67 R 66

2-METHYLPROPAN-1-OL ; EC-No. : 201-148-0; CAS-No. : 78-83-1

Percentage : 5 - 10 %

Classification : R 10 Xi ; R 41 Xi ; R 37/38 R 67

N-BUTYL ACETATE ; EC-No. : 204-658-1; CAS-No. : 123-86-4

Percentage : 5 - 10 %

Classification : R 10 R 67 R 66

5-METHYLHEXAN-2-ONE ; EC-No. : 203-737-8; CAS-No. : 110-12-3

Percentage : 1 - 5 %

Classification : R 10 Xn ; R 20

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TRIZINC BIS(ORTHOPHOSPHATE) ; EC-No. : 231-944-3; CAS-No. : 7779-90-0

Percentage : 2,5 - 5 %

Classification : N ; R 50/53

1-METHOXY-2-PROPANOL ; EC-No. : 203-539-1; CAS-No. : 107-98-2

Percentage : 1 - 5 %

Classification : R 10 Substance with a Community workplace exposure limit.

PROPAN-1-OL ; EC-No. : 200-746-9; CAS-No. : 71-23-8

Percentage : 1 - 5 %

Classification : F ; R 11 Xi ; R 41 R 67

For the wording of the listed risk phrases refer to section 16.

04. First-aid measures

General

Immediately remove all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention.
Unconsciousness: lateral position - call a physician.

After inhalation

Take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Call a doctor in case.

After skin contact

Wash away with soap and water and rinse. Do not use solvents or thinners.

After eye contact

Flush with plenty of water (10 - 15 min.). Call a doctor in case.

After ingestion

Call a doctor and tell him the exactly substance. Keep at rest. Do not induce vomiting.

05. Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

Waterjet.

Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

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

Special protective equipment

Appropriate breathing apparatus may be required.

Additional information

Cool endangered containers with water in case of fire.

06. Accidental release measures

Personal precautions

Remove ignition sources. Provide for sufficient ventilation. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Prevent seepage into ground, water and sewage system. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

Methods for cleaning up/collecting

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.

07. Handling and storage

Information for safe handling

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Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

Information about protection against explosions and fires

Keep away from ignition sources - No smoking. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Take precautionary measures against static discharges. Operators should wear antistatic footwear and clothing. No sparking tools should be used.

Requirements to be met by storerooms and containers

Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Make sure that ventilation is adequate. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Store the foodstuffs separately.

Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep containers dry and cool.

Storage class (VCI) : 3A

Specific uses

Solvent-based coating. Intended purpose see technical data sheet.

08. Exposure controls/personal protection

Additional information about engineering measures

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.

Components with critical values that require monitoring at the workplace (exposure limits)

XYLENE ; CAS-No. : 1330-20-7

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)

Value : 100 ppm / 440 mg/m³

Category : 2(II)

Remarks : H

Version date : 01.04.2007

Specification : TRGS 903 - biological maximum limits (D)

Parameter : Xylene / whole blood / end of exposure or shift

Value : 1,5 mg/l

Version date : 31.03.2004

Specification : TRGS 903 - biological maximum limits (D)

Parameter : Methylhippuric acid / urine / end of exposure or shift

Value : 2 g/l

Version date : 31.03.2004

Specification : Short term exposure limit (EC)

Value : 100 ppm / 442 mg/m³

Remarks : H

Version date : 08.06.2000

Specification : threshold limit value (EC)

Value : 50 ppm / 221 mg/m³

Remarks : H

Version date : 08.06.2000

2-METHYLPROPAN-1-OL ; CAS-No. : 78-83-1

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)

Value : 100 ppm / 310 mg/m³

Category : 1(I)

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Remarks : Y
Version date : 01.04.2007
5-METHYLHEXAN-2-ONE ; CAS-No. : 110-12-3
Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 20 ppm / 95 mg/m³
Version date : 01.04.2007
Specification : threshold limit value (EC)
Value : 20 ppm / 95 mg/m³
Version date : 08.06.2000
1-METHOXY-2-PROPANOL ; CAS-No. : 107-98-2
Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 100 ppm / 370 mg/m³
Category : 2(I)
Remarks : Y
Version date : 01.04.2007
Specification : Short term exposure limit (EC)
Value : 150 ppm / 568 mg/m³
Remarks : H
Version date : 08.06.2000
Specification : threshold limit value (EC)
Value : 100 ppm / 375 mg/m³
Remarks : H
Version date : 08.06.2000

Personal protective equipment

Respiratory protection

Take breathing protection measures (see also instr. to avoid accidents). Combination filter mask A2 - P2 for short-term work.

Hand protection

Use protective gloves. Suitable glove materials: fluoro-rubber, butyl-rubber or nitrile-rubber. Please pay attention to the glove penetration times of the solvents named below in chapter 2, according to the glove manufactures. After washing hands replace lost skin fat by fat containing skin creams.

Eye protection

Use safety glasses.

Body protection

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

09. Physical and chemical properties

Image

Form : Liquid
Colour : According to product identification.
Odour : Like solvent.

Relevant safety data

Boiling point / range :	(1013 hPa)	ca.	120 - 200	°C
Flash point :		>	23	°C
Ignition temperature :			no data available	
Lower explosion limit :		ca.	0,7	% b.v.
Upper explosion limit :		ca.	11	% b.v.
Vapour pressure :	(50 °C)	<	15	hPa
Density :	(20 °C)		1,2 - 1,6	g/cm ³
Solvent-separation test :	(20 °C)	<	3	%
Solubility in water :	(20 °C)		insoluble	
Flow time :	(20 °C)		60 - 65	s DIN-cup 4 mm

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Solids content : 60 - 70 % b.w.

Additional information

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

10. Stability and reactivity

Conditions to avoid

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

Materials to avoid

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

Hazardous decomposition products

None, if handled according to order. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Experience on practice

There are no data available on the product itself. Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea. In case of contact with the product: danger of resorption through the skin, irritation of skin/mucous membranes. Eye contact: irritation.

Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

12. Ecological information

Details on elimination (persistence / degradability)

There are no data available on the product itself.

Ecotoxicological effects

Aquatic toxicity

Specification :	EC50 (TRIZINC BIS(ORTHOPHOSPHATE) ; CAS-No. : 7779-90-0)
Parameters :	Daphnia
Value / dosage :	< 1,7 mg/l
Test-period :	48 h
Specification :	LC50 (TRIZINC BIS(ORTHOPHOSPHATE) ; CAS-No. : 7779-90-0)
Parameters :	Fish
Value / dosage :	< 5,1 mg/l
Test-period :	96 h

Additional ecological information

Do not empty into waters or drains.

13. Disposal considerations

Product

Recommendation

Can be taken to a suitable incineration centre in observance of local regulations.

Waste key

EWC-Code: 08 01 11.

Contaminated packaging

Recommendation

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

Waste key

Uncleaned packaging: EWC-Code: 15 01 10. Cleaned packaging: EWC-Code: 15 01 04.

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14. Transport information

Land transport ADR/RID

Classification

Class : 3 **Kemlercode :** 30
Substance number : 1263 **Classification-Code :** F1

ADR : 9 (<= 450 l) · Special provisions : 640E · LQ 7 · Tunnel restriction code : E

Proper shipping name

PAINT

Packaging

Packaging group : III
Label : 3

Maritime transport IMDG/GGVSea

Classification

IMDG-Code : 3 **EmS number :** F-E / S-E
UN number : 1263 **Marine Poll. :** -

IMDG 2.3.2.5 (<= 30 l) · LQ 5 l

Proper shipping name

PAINT

Packaging

Packaging group : III
Label : 3

Air transport ICAO-TI and IATA-DGR

Classification

Class : 3
UN number : 1263

Proper shipping name

PAINT

Packaging

Packaging group : III
Label : 3

15. Regulatory information

Classification according to EC directives

Danger symbol and danger designation



Xn ; Harmful



N ; Dangerous for the environment

Hazard-determining components of labelling

REACTION PRODUCT:BISPHENOL A-(EPICHLORHYDRIN) ; CAS-No. : 25068-38-6

R-phrases

10 Flammable.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
43 May cause sensitisation by skin contact.
20 Harmful by inhalation.
36/38 Irritating to eyes and skin.

S-phrases

29/35 Do not empty into drains; dispose of this material and its container in a safe way.

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- 61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
- 51 Use only in well-ventilated areas.
- 37 Wear suitable gloves.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 23.1 Do not breathe splashing fog.

Special designation for certain preparations

- 92 Contains epoxy constituents. See information supplied by the manufacturer.

National regulatory information

Emission control act ("TA-Luft")

Sum organic substances class I : < 0,5 %

Water pollution classification

Class : 2 according VwVwS

16. Other information

Further information

Relevant changes

03. Hazardous components · 08. Components with critical values that require monitoring at the workplace (exposure limits) · 14. Land transport ADR/RID and GGVS/GGVE · 14. Classification (ADR) · 14. Proper shipping name (ADR) · 14. Proper shipping name (IMDG) · 14. Proper shipping name (ICAO) · 15. Danger symbol and danger designation · 15. Hazard-determining components of labelling · 15. R-phrases · 15. S-phrases · 15. Emission control act ("TA-Luft")

R-Phrases of components

- 10 Flammable.
 - 11 Highly flammable.
 - 20 Harmful by inhalation.
 - 20/21 Harmful by inhalation and in contact with skin.
 - 36/38 Irritating to eyes and skin.
 - 37 Irritating to respiratory system.
 - 37/38 Irritating to respiratory system and skin.
 - 38 Irritating to skin.
 - 41 Risk of serious damage to eyes.
 - 43 May cause sensitisation by skin contact.
 - 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - 65 Harmful: may cause lung damage if swallowed.
 - 66 Repeated exposure may cause skin dryness or cracking.
 - 67 Vapours may cause drowsiness and dizziness.
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These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
