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

according to Regulation (EU) 2020/878

Article No.: 04000036 Basis for Epoxy-Resin, photoluminescent

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

1.1. product identifiers

Article No. (manufacturer/supplier) 57852 Kroschke sign-international GmbH, vertrieb@kroschke.com

Identification of the substance or mixture

Basis for Epoxy-Resin, photoluminescent, Comp. A

EPST 0000

UFI: HV13-F0FQ-V004-SY4F

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

Relevant identified uses

coating for industrial and marine use

For commercial user only.

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Corroconsult GmbH

Elstorfer Ring 70 Telefon: +49 (0) 40 2786 1277
D-21149 Hamburg E-mail: office@corroconsult.de

Department responsible for information:

laboratory

E-mail (competent person) lab@wilckens.com

1.4. Emergency telephone number

Emergency telephone number +49 4124 606 188

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Irrit. 2 / H315 Skin corrosion/irritation Causes skin irritation.

Eye Irrit. 2 / H319 Serious eye damage/eye irritation Causes serious eye irritation.

Skin Sens. 1 / H317 Respiratory or skin sensitisation May cause an allergic skin reaction.

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

2.2. Label elements

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

Hazard pictograms





Warning

Hazard statements

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

Precautionary statements

P261 Avoid breathing vapours.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/.?.

P302 + P352 IF ON SKIN: Wash with plenty of water/.?.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing.

P391 Collect spillage.

P501 Dispose of contents/container to industrial incineration plant.

contains:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane; (epoxy resin MW < 700)

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

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Supplemental hazard information

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Product description / chemical characterization

Description epoxycoat

Hazardous ingredients

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

EC No.	REACH No.	
CAS No.	Chemical name	weight-%
Index No.	classification // Remark	
500-033-5	01-2119456619-26-XXXX	
25068-38-6	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; (epoxy	70 < 80
603-074-00-8	resin MW < 700)	
	Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1B H317 / Aquatic	
	Chronic 2 H411	
219-553-6	01-2119962196-31-xxxx	
2461-15-6	[[(2-ethylhexyl)oxy]methyl]oxirane	10 < 12,5
	Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	
202-859-9	01-2119492630-38-XXXX	
100-51-6	benzyl alcohol	1 < 2
603-057-00-5	Acute Tox. 4 H332 / Acute Tox. 4 H302	
	Acute toxicity estimate (ATE): ATE (oral): 1620 mg/kg bw / ATE (inhalation,	
	vapour): 4,17 mg/L	
265-149-8		
64742-47-8	Distillates (petroleum), hydrotreated light	1 < 2
649-422-00-2	Asp. Tox. 1 H304	

Additional information

Full text of R-phrases: see section 16.
Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

- 4.2. Most important symptoms and effects, both acute and delayed
 - In all cases of doubt, or when symptoms persist, seek medical advice.
- 4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

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

according to Regulation (EU) 2020/878

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5.1. Extinguishing media

Suitable extinguishing media:

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours. See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight.

Due to the content of organic solvents in the preparation:

Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

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

according to Regulation (EU) 2020/878

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8.1. Control parameters

Occupational exposure limit values

Distillates (petroleum), hydrotreated light

Index No. 649-422-00-2 / EC No. 265-149-8 / CAS No. 64742-47-8

WEL, TWA: 800 mg/m3

Remark: (> or = C7, Cycloalkanes)

WEL, TWA: 1200 mg/m3

Remark: (> or = C7, Normal and branched chain alkanes)

Additional information

TWA: Long-term occupational exposure limit value STEL: short-term occupational exposure limit value

Ceiling: peak limitation

DNEL:

benzyl alcohol

Index No. 603-057-00-5 / EC No. 202-859-9 / CAS No. 100-51-6

DNEL acute dermal, short-term (systemic), Workers: 40 mg/kg

DNEL long-term dermal (systemic), Workers: 8 mg/kg DNEL acute inhalative (systemic), Workers: 110 mg/m³

DNEL long-term inhalative (systemic), Workers: 110 mg/m DNEL long-term inhalative (systemic), Workers: 22 mg/m³

DNEL long-term innalative (systemic), workers: 22 mg/n DNEL short-term oral (acute), Consumer: 20 mg/kg

DNEL long-term oral (repeated), Consumer: 4 mg/kg

DNEL acute dermal, short-term (systemic), Consumer: 20 mg/kg

DNEL long-term dermal (systemic), Consumer: 4 mg/kg

DNEL acute inhalative (systemic), Consumer: 27 mg/m³

DNEL long-term inhalative (systemic), Consumer: 5,4 mg/m³

[[(2-ethylhexyl)oxy]methyl]oxirane

EC No. 219-553-6 / CAS No. 2461-15-6

DNEL long-term dermal (systemic), Workers: 4,17 mg/kg DNEL long-term dermal (systemic), Consumer: 2,5 mg/kg

PNEC:

benzyl alcohol

Index No. 603-057-00-5 / EC No. 202-859-9 / CAS No. 100-51-6

PNEC aquatic, freshwater: 1 mg/L

PNEC aquatic, marine water: 0,1 mg/L

PNEC aquatic, intermittent release: 2,3 mg/L

PNEC sediment, freshwater: 5,27 mg/kg

PNEC sediment, marine water: 0,527 mg/kg

PNEC, soil: 0,456 mg/kg

PNEC sewage treatment plant (STP): 39 mg/L

[[(2-ethylhexyl)oxylmethyl]oxirane

EC No. 219-553-6 / CAS No. 2461-15-6

PNEC aquatic, freshwater: 0,0072 mg/L

PNEC aquatic, marine water: 0,0007 mg/L

PNEC sediment, freshwater: 286,66 mg/kg

PNEC sediment, marine water: 28,66 mg/kg

PNEC sewage treatment plant (STP): 10 mg/L

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm; Breakthrough time: > 480 min.

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Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: solid
Colour: refer to label
Odour: characteristic
Odour threshold: not applicable

Melting point/freezing point: -15 °C

Source: benzyl alcohol

Initial boiling point and boiling range: not applicable Flammability: Flammable solid.

Lower and upper explosion limit:

Lower explosion limit: not applicable Upper explosion limit: not applicable

Flash point: 90 °C

Method: DIN 53213-1

Auto-ignition temperature: not applicable

Decomposition temperature: not applicable

pH at 20 °C:: not applicable Cinematic viscosity (40 °C): $> 1000 \text{ mm}^2/\text{s}$

Viscosity at 20 °C:: 2000 mPa* s

Method: TM 33 b

Solubility(ies):

Water solubility at 20 °C:: completely miscible
Partition coefficient: n-octanol/water: see section 12
Vapour pressure at 20 °C:: not applicable

Density and/or relative density:

Density at 20 °C: 1,12 g/cm³
Relative vapour density: not applicable particle characteristics: not applicable

9.2. Other information

Solid content: 100 weight-%

solvent content:

Organic solvents: 0 weight-% Water: 0 weight-%

SECTION 10: Stability and reactivity

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

according to Regulation (EU) 2020/878

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10.1. Reactivity

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

Acute toxicity

2K-Epoxid-Gießharz EPST 0000

oral, LD50, Rat

benzyl alcohol

oral, LD50, Rat: 1620 mg/kg

dermal, LD50, Rabbit: > 2000 mg/kg

inhalative (vapours), LC50, Rat: > 4,178 mg/L (4 h)

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; (epoxy resin MW < 700)

oral, LD50, Rat: > 2000 mg/kg dermal, LD50, Rat: > 1200 mg/kg dermal, LD50, Rabbit: > 2000 mg/kg

[[(2-ethylhexyl)oxy]methyl]oxirane oral, LD50, Rat: > 5000 mg/kg dermal, LD50, Rat: > 2000 mg/kg

skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Toxicological data are not available.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

Toxicological data are not available.

Practical experience/human evidence

Other observations:Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

->

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

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There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

overall evaluation

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

There is no information available on the preparation itself.

Do not allow to enter into surface water or drains.

12.1. Toxicity

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; (epoxy resin MW < 700)

Fish toxicity, LC50: 1,3 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50: 2,1 mg/L (48 h)

Method: OECD 211

Algae toxicity, ErC50: > 11 mg/L (72 h)

Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Toxicological data are not available.

12.3. Bioaccumulative potential

Toxicological data are not available.

Bioconcentration factor (BCF)

Toxicological data are not available.

12.4. Mobility in soil

Toxicological data are not available.

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

No information available.

12.7. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product

Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

080111*

Waste paint and varnish containing organic solvents or other dangerous substances

packaging

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1. UN number or ID number

UN 3082

14.2. UN proper shipping name

Land transport (ADR/RID): Environmentally hazardous substance, liquid, n.o.s.

(epoxy resin)

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

according to Regulation (EU) 2020/878

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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)

9

14.4. Packing group

Ш

14.5. Environmental hazards

Land transport (ADR/RID)

UMWELTGEFAEHRDEND

Marine pollutant p / epoxy resin

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)
Tunnel restriction code

in packages <= 5 kg
Sea transport (IMDG)

F-A, S-F

in packages <= 5 kg

EmS-No.

"not restricted 2.10.2.7"

Kein Gut der Klasse 9

Air transport (ICAO-TI / IATA-DGR)

in packages <= 5 kg

Not Restricted, as per Special Provision A197

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

EU legislation

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 0

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

The product complies with Directives 2002/95/EC (RoHS), 2011/65/ EC (ROHS-2I) and adjustment policy 2015/863/EC The product presumably contains no PAHs, no conflict minerals and no substances listed in BOMcheck Version 4.5 (June 2015).

The raw materials of the product are registered / pre-registered in accordance with Directive 1907/2006 / (REACH) The product does not contain substances in concentrations > 0,1% according to Art. 57 in conjunction with Art. 59 / Annex XIV 1907 / 2006EG, from 17.01.2022; (SVHC or candidates until 01/2022)

15.2. Chemical Safety Assessment

For the following substances of this preparation a chemical safety assessment has been carried out:

EC No.	Chemical name	REACH No.
CAS No.		
500-033-5	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane;	01-2119456619-26-XXXX
25068-38-6	(epoxy resin MW < 700)	
219-553-6	[[(2-ethylhexyl)oxy]methyl]oxirane	01-2119962196-31-xxxx
2461-15-6		

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

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01-2119492630-38-XXXX

202-859-9 100-51-6

SECTION 16: Other information

Full text of classification in section 3:

Skin Irrit, 2 / H315 Skin corrosion/irritation Eye Irrit. 2 / H319 Serious eye damage/eye irritation Skin Sens. 1B / H317 Respiratory or skin sensitisation Aquatic Chronic 2 / H411 Hazardous to the aquatic environment Skin Sens. 1 / H317 Respiratory or skin sensitisation Aquatic Chronic 3 / H412 Hazardous to the aquatic environment

Acute Tox. 4 / H332 Acute toxicity (inhalative) Acute toxicity (oral) Acute Tox. 4 / H302

benzyl alcohol

Asp. Tox. 1 / H304 Aspiration hazard

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

Harmful if inhaled. Harmful if swallowed.

May be fatal if swallowed and enters airways.

Abbreviations and acronyms

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

^{*} Data changed compared with the previous version