

# Safety Data Sheet

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

according to Regulation (EU) 2020/878

Article No.: 04100136  
Print date: 17.07.2024  
Version: 36.1

Hardener for Epoxy-Resin  
Revision date: 17.02.2023  
Issue date: 17.02.2023

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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  
Trade name/designation Hardener for Epoxy-Resin, photoluminescent  
EPXT 0000  
UFI: GQ13-F02X-8005-F8YA

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

Relevant identified uses:  
Additives / Paint related materials

### 1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)  
Corroconsult GmbH  
Elstorfer Ring 70  
D-21149 Hamburg  
Telefon: +49(0)40 /27861277  
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].

Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Corr. 1A / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging fertility or the unborn child.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements

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

Hazard pictograms



Danger

Hazard statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe vapour.
P261	Avoid breathing vapours.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
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/?.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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- P301 + P330 + P331IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P302 + P352IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313IF exposed or concerned: Get medical advice/attention.
- P310Immediately call a POISON CENTER or doctor/ physician.
- P312Call a POISON CENTER or doctor/physician if you feel unwell.
- P330Rinse mouth.
- P333 + P313If skin irritation or rash occurs: Get medical advice/attention.
- P362 + P364Take off contaminated clothing and wash it before reuse.
- P363Wash contaminated clothing before reuse.
- P391Collect spillage.
- P403 + P233Store in a well-ventilated place. Keep container tightly closed.
- P501.W1Content / container disposal in accordance with national official regulations

Hazard components for labelling

Trimethylhexane-1,6-diamine

Butylphenol

m-phenylenebis(methylamine)

Supplemental hazard information

not applicable

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description	Hardener	
Classification according to Regulation (EC) No 1272/2008 [CLP]		
EC No.	REACH No.	weight-%
CAS No.	Designation	
Index No.	classification // Remark	
247-134-8	01-2119560598-25	10 < 12,5
25620-58-0	Trimethylhexane-1,6-diamine	
	Acute Tox. 4 H302 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	
202-679-0	01-2119489419-21	30 < 40
98-54-4	Butylphenol	
	This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.	
216-032-5	01-2119480150-50-XXXX	30 < 40
1477-55-0	m-phenylenebis(methylamine)	
	Acute Tox. 4 H302 / Acute Tox. 4 H332 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	
	Acute toxicity estimate (ATE), ATE (oral): 1040 mg/kg bw / ATE (inhalation, vapour): 2,40 mg/L	

Additional information

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

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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  
First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

- 5.1. Extinguishing media  
Suitable extinguishing media  
alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)  
Unsuitable extinguishing media  
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.
- 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. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. 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.  
Further information  
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

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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. 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

### 8.1. Control parameters

Occupational exposure limit values:

not applicable

DNEL:

m-phenylenebis(methylamine)

EC No. 216-032-5 / CAS No. 1477-55-0

DNEL long-term dermal (systemic), Workers: 0,33 mg/kg

DNEL long-term inhalative (systemic), Workers: 1,2 mg/m<sup>3</sup>

PNEC:

m-phenylenebis(methylamine)

EC No. 216-032-5 / CAS No. 1477-55-0

PNEC aquatic, freshwater: 0,094 mg/L

PNEC aquatic, marine water: 0,0094 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.

#### Personal protection equipment

##### Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. 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.

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/face protection

Wear closely fitting protective glasses in case of splashes.

##### Body protection

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 section 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

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Odour threshold:	not applicable
Melting point/freezing point:	not applicable
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:	75 °C Method: DIN 53213-1
Auto-ignition temperature:	not applicable
Decomposition temperature:	not applicable
pH at 20 °C:	not applicable
Cinematic viscosity (40°C):	> 22 mm <sup>2</sup> /s Method: Cinematic viscosity (40°C):
Viscosity at 20 °C:	800-1200 cp
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/cm <sup>3</sup>
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

- 10.1. Reactivity  
No information available.
- 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  
Hazardous decomposition byproducts may form with exposure to high temperatures.
- 10.5. Incompatible materials  
not applicable
- 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  
Harmful if swallowed.  
Trimethylhexane-1,6-diamine  
oral, LD50, Rat

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m-phenylenebis(methylamine)

oral, LD50, Rat: 1040 mg/kg

inhalative (Gases), LC50, Rat: 2,4 ppmV (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes severe skin burns and eye damage.

Trimethylhexane-1,6-diamine

Skin (4 h)

Butylphenol

Skin (4 h)

eyes

m-phenylenebis(methylamine)

Skin (4 h)

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Trimethylhexane-1,6-diamine

Skin:

m-phenylenebis(methylamine)

Skin:

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Suspected of damaging fertility or the unborn child.

Butylphenol

Reproductive toxicity

Endocrine disrupting potential

Method: This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.

STOT-single exposure; STOT-repeated exposure

May cause respiratory irritation.

Butylphenol

Specific target organ toxicity (single exposure), Irritation

Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience/human evidence

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.

## 11.2. Information on other hazards

Endocrine disrupting properties

No information available.

## SECTION 12: Ecological information

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

Do not allow to enter into surface water or drains.

### 12.1. Toxicity

Based on available data, the classification criteria are not met.

Long-term Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Trimethylhexane-1,6-diamine

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Fish toxicity, LC50 (96 h)

Butylphenol

Fish toxicity, LC50 (96 h)

m-phenylenebis(methylamine)

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 100 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: 15,2 mg/L (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 33,3 mg/L (72 h)

## 12.2. Persistence and degradability

Toxicological data are not available.

## 12.3. Bioaccumulative potential

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

No information available.

## 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. Dispose of waste according to applicable legislation.

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

080111\* Waste paint and varnish containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package

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 2735

### 14.2. UN proper shipping name

Land transport (ADR/RID):

Amines, liquid, corrosive, n.o.s.

(AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, COR)

Sea transport (IMDG):

AMINES, LIQUID, CORROSIVE, N.O.S.

(AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, COR,  
Butylphenol)

Air transport (ICAO-TI / IATA-DGR):

Amines, liquid, corrosive, n.o.s.

(AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, COR)

### 14.3. Transport hazard class(es)

8

### 14.4. Packing group

III

### 14.5. Environmental hazards

Land transport (ADR/RID)

UMWELTGEFAEHRDEND

Marine pollutant

p / Butylphenol

### 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

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case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

## Further information

Land transport (ADR/RID)

Tunnel restriction code E

Sea transport (IMDG)

EmS-No. F-A, S-B

## 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 or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

### 15.2. Chemical Safety Assessment

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

EC No. CAS No.	Designation	REACH No.
247-134-8 25620-58-0	Trimethylhexane-1,6-diamine	01-2119560598-25
202-679-0 98-54-4	Butylphenol	01-2119489419-21
216-032-5 1477-55-0	m-phenylenebis(methylamine)	01-2119480150-50-XXXX

## SECTION 16: Other information

Full text of classification in section 3

Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Corr. 1B / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4	Acute toxicity (oral)	Calculation method.
Skin Corr. 1A	Skin corrosion/irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
Repr. 2	Reproductive toxicity	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.
Aquatic Chronic 1	Hazardous to the aquatic environment	Calculation method.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard



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DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

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.