

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878

Article No.: 803
Print date: 27.12.2022
Version: 3.0

BRICAPOLY Polyester-Harz
Revision date: 10.12.2022
Issue date: 10.12.2022

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

1.1. product identifiers

Article No. (manufacturer/supplier) 803
Trade name/designation BRICAPOLY Polyester-Harz
UFI: 326V-156H-X99J-AMHY

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

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Knuchel Farben AG
Farben + Lacke Telephone: +41 (0) 32 636 50 40
Steinackerweg 11 Telefax: +41 (0) 32 636 50 45
CH-4537 Wiedlisbach

Department responsible for information:

laboratory Manager
E-mail (competent person) info@knuchel.ch

1.4. Emergency telephone number

Emergency telephone number 145 (+41 (0)44 251 51 51)

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].

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
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.
Repr. 1B / H360	Reproductive toxicity	May damage fertility. Suspected of damaging the unborn child.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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



Danger

Hazard statements

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H360 May damage fertility. Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.

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P260	Do not breathe vapour.
P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use extinguishing powder or sand to extinguish.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Keep locked up.
P501	Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

maleic anhydride
 Cobalt bis(2-ethylhexanoate)
 Styrene
 Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol
 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-
 Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol
 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-
 Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol
 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

Supplemental hazard information

not applicable

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description ungesättigte Poylester

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

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
246-562-2 25013-15-4	01-2119622074-50 vinyltoluene Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Asp. Tox. 1 H304 / Flam. Liq. 3 H226	15 - 25
202-851-5 100-42-5 601-026-00-0	01-2119457861-32 Styrene Flam. Liq. 3 H226 / Repr. 2 H361 / Acute Tox. 4 H332 / STOT RE 1 H372 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 Acute toxicity estimate (ATE), ATE (inhalation, vapour): 12.00 mg/L	5 - 10
231-944-3 7779-90-0 030-011-00-6	01-2119485044-40 trizinc bis(orthophosphate) Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	1 - 5
203-571-6 108-31-6 607-096-00-9	01-2119463268-32 maleic anhydride Acute Tox. 4 H302 / STOT RE 1 H372 / Skin Corr. 1B H314 / Eye Dam. 1 H318 / Resp. Sens. 1 H334 / Skin Sens. 1A H317 / EUH071 Specific concentration limit (SCL): Skin Sens. 1A H317 >= 0.001	0.5 - 1

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205-250-6 136-52-7	01-2119524678-29 Cobalt bis(2-ethylhexanoate) Eye Irrit. 2 H319 / Skin Sens. 1A H317 / Repr. 1B H360 / Aquatic Acute 1 H400 / Aquatic Chronic 3 H412	0.5 - 1
911-490-9	01-2119979579-10 Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	0.5 - 1

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

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

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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 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:

Styrene

Index No. 601-026-00-0 / EC No. 202-851-5 / CAS No. 100-42-5

WEL, TWA: 430 mg/m³; 100 ppm

WEL, STEL: 1080 mg/m³; 250 ppm

maleic anhydride

Index No. 607-096-00-9 / EC No. 203-571-6 / CAS No. 108-31-6

WEL, TWA: 1 mg/m³

WEL, STEL: 3 mg/m³

Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

Styrene

Index No. 601-026-00-0 / EC No. 202-851-5 / CAS No. 100-42-5

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DNEL long-term dermal (systemic), Workers: 406 mg/kg bw/day
DNEL acute inhalative (local), Workers: 306 mg/m³
DNEL acute inhalative (systemic), Workers: 289 mg/m³
DNEL long-term inhalative (systemic), Workers: 85 mg/m³

vinyltoluene

EC No. 246-562-2 / CAS No. 25013-15-4

DNEL long-term inhalative (local), Workers: 37 mg/m³
DNEL long-term inhalative (systemic), Workers: 37 mg/m³

PNEC:

Styrene

Index No. 601-026-00-0 / EC No. 202-851-5 / CAS No. 100-42-5

PNEC aquatic, freshwater: 0,028 mg/L
PNEC aquatic, marine water: 0,014 mg/L
PNEC aquatic, intermittent release: 0,04 mg/L
PNEC sediment, freshwater: 0,614 mg/kg
PNEC sediment, marine water: 0,307 mg/kg
PNEC, soil: 0,2 mg/kg
PNEC sewage treatment plant (STP): 5 mg/L

vinyltoluene

EC No. 246-562-2 / CAS No. 25013-15-4

PNEC aquatic, freshwater: 0,0498 mg/L
PNEC aquatic, marine water: 0,002 mg/L
PNEC sediment, freshwater: 0,684 mg/kg
PNEC sediment, marine water: 0,0684 mg/kg
PNEC, soil: 0,133 mg/kg dw
PNEC sewage treatment plant (STP): 1 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
Odour threshold:	not applicable
Melting point/freezing point:	not applicable

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Initial boiling point and boiling range:	not applicable
Flammability:	Flammable liquid and vapour.
Lower and upper explosion limit:	
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Flash point:	32 °C Method: DIN 53213
Auto-ignition temperature:	not applicable
Decomposition temperature:	not applicable
pH at 20 °C:	not applicable
Cinematic viscosity (40°C):	1836.75 mm²/s
Viscosity at 20 °C:	2000 - 2500 mPas
Solubility(ies):	
Water solubility at 20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	not applicable
Density and/or relative density:	
Density at 20 °C:	1.36 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

- 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

Styrene

oral, LD50, Rat: 2650 mg/kg
dermal, LD50, Rat: > 2000 mg/kg
inhalative (vapours), LC50, Rat: 12 mg/L (4 h)

vinyltoluene

oral, LD50, Rat: 3275 mg/kg
dermal, LD50, Rabbit: > 4400 mg/kg
inhalative (vapours), LC50, Rat: 16,891 mg/L (4 h)

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inhalative (vapours), LC50, Rat: > 3535 ppm (4 h)
oral, Mouse: 50 mg/kg (90 d)
Subacute oral toxicity

Reaction mass of 2,2'-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-
Reaction mass of 2,2'-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-
Reaction mass of 2,2'-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-
oral, LD50, Rat

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye irritation.

Styrene

Skin, Rabbit (4 h)
Causes skin irritation.
eyes
Causes serious eye irritation.

vinyltoluene

Skin, Rabbit (4 h)
Irritating to skin.
eyes, Rabbit
Irritating to eyes.; Draize Test

Reaction mass of 2,2'-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-
Reaction mass of 2,2'-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-
Reaction mass of 2,2'-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-
Skin (4 h)
eyes

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Styrene

Skin, Guinea pig: ; Evaluation negative
Not to be classified as an inhalation or skin allergen.
Respiratory system, Guinea pig: ; Evaluation negative
Not to be classified as an inhalation or skin allergen.

vinyltoluene

Skin:
No sensitizing effect known.
Respiratory system:
No sensitizing effect known.

Reaction mass of 2,2'-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-
Reaction mass of 2,2'-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-
Reaction mass of 2,2'-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-
Skin:

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

May damage fertility. Suspected of damaging the unborn child.

Styrene

Germ cell mutagenicity
No data available
Carcinogenicity
No data available
Reproductive toxicity; Evaluation Suspected of damaging the unborn child.
teratogenicity
Suspected of damaging the unborn child.

vinyltoluene

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure; STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Styrene

Specific target organ toxicity (single exposure)

Not to be classified as specific target organ toxic (single exposure).

Specific target organ toxicity (repeated exposure) Evaluation Causes damage to organs through prolonged or repeated exposure.

vinyltoluene

Specific target organ toxicity (single exposure)

The substance/mixture is classified as target organ toxic, single exposure, category 3 with respiratory irritation.

Specific target organ toxicity (repeated exposure)

No data available

Aspiration hazard

Styrene

Aspiration hazard; Evaluation Not to be classified as aspirational.

vinyltoluene

Aspiration hazard

May be fatal if swallowed and enters airways.

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

EC No. CAS No.	Designation	Classification according to Regulation (EC) No 1272/2008 [CLP]
205-250-6 136-52-7	Cobalt bis(2-ethylhexanoate)	Repr. 1B

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

Styrene

Fish toxicity, LC50: 10 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: 4,7 mg/L (48 h)

Algae toxicity, ErC50: 4,9 mg/L (72 h)

Fish toxicity, EC50: 3,32 mg/L (96 h)

Fish toxicity, LC50, Lepomis macrochirus (Bluegill): 25 mg/L (96 h)

Algae toxicity, IC5, Microcystis aeruginosa: 67 mg/L (8 d)

Bacteria toxicity, EC50, Photobacterium phosphoreum: 5,5 mg/L (5 min)

vinyltoluene

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 5,2 mg/L (96 h)

Method: OECD 203

Static test

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Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1,3 mg/L (48 h)
Method: OECD 202
Immobilisation
Algae toxicity, EC50, Selenastrum capricornutum: 2,6 mg/L (72 h)
Method: OECD 201
growth inhibition
Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 1,6 mg/L (72 h)
Daphnia toxicity, NOEC, Daphnia magna: 0,81 mg/L (48 h)
Fish toxicity, NOEC, Pimephales promelas (fathead minnow): 2,6 mg/L (96 h)

Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

Styrene

Daphnia toxicity, NOEC: 1,01 mg/L (21 d)
Daphnia toxicity, EC50: 1,88 mg/L (21 d)
Daphnia toxicity, LC50: > 3,84 mg/L (21 d)
Daphnia toxicity, LOEC: 2,06 mg/L (21 d)
microorganisms, growth test (Eb-Cx) 10%: 140 mg/L (30 min)

vinyltoluene

Daphnia toxicity, NOEC, Daphnia magna: 0,498 mg/L (21 d)
QSAR EPA 2008
Fish toxicity, NOEC: 0,563 mg/L (30 d)
QSAR EPA 2008

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-
Fish toxicity, LC50 (96 h)

12.2. Persistence and degradability

Styrene

Biodegradation: 80 percent (20 d); Evaluation Readily biodegradable (according to OECD criteria).
biotic/abiotic

vinyltoluene

Biodegradation:
No data available

12.3. Bioaccumulative potential

Styrene

Distribution coefficient n-octanol/water (log KOW): 2,96

vinyltoluene

Partition coefficient: n-octanol/water:
Distribution coefficient n-octanol/water (log KOW): 3,36

Bioconcentration factor (BCF)

Styrene

Bioconcentration factor (BCF): 74

12.4. Mobility in soil

Styrene

soil:
No data 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

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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 3269

14.2. UN proper shipping name

Land transport (ADR/RID):

Polyester resin kit liquid base material

Sea transport (IMDG):

POLYESTER RESIN KIT liquid base material

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

Polyester resin kit liquid base material

14.3. Transport hazard class(es)

3

14.4. Packing group

III

14.5. Environmental hazards

Land transport (ADR/RID)

UMWELTGEFÄHRDEND

Marine pollutant

p

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

D/E

KEINE GÜTER DER KLASSE 3

Sea transport (IMDG)

EmS-No.
in packages <= 5 kg

F-E, S-E

Transport in accordance with the provisions of paragraph 2.3.2.5 of the IMDG Code.

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

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878

Article No.: 803
 Print date: 27.12.2022
 Version: 3.0

BRICAPOLY Polyester-Harz
 Revision date: 10.12.2022
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For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
246-562-2 25013-15-4	vinyltoluene	01-2119622074-50
202-851-5 100-42-5	Styrene	01-2119457861-32
231-944-3 7779-90-0	trizinc bis(orthophosphate)	01-2119485044-40
203-571-6 108-31-6	maleic anhydride	01-2119463268-32
205-250-6 136-52-7	Cobalt bis(2-ethylhexanoate)	01-2119524678-29
911-490-9	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-	01-2119979579-10

SECTION 16: Other information

Full text of classification in section 3

Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging the unborn child.
STOT RE 1 / H372	STOT-repeated exposure	Causes damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Corr. 1B / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Resp. Sens. 1 / H334	Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1A / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Repr. 1B / H360	Reproductive toxicity	May damage fertility. Suspected of damaging the unborn child.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.

Classification procedure

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

Flam. Liq. 3	Flammable liquids	On basis of test data.
Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
Repr. 1B	Reproductive toxicity	Calculation method.
STOT RE 2	STOT-repeated exposure	Calculation method.
Aquatic Chronic 2	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

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
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CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
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.