

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.04.2018

Vers.-no.: 1

Revision: 18.04.2018

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

- **1.1 Product identifier**
- **Trade name:** EP 3572
- **EINECS Number:** -
- **Index number:** -
- **REACH Registration number**
REACH-registration for preparations is unnecessary. The ingredients are registered or preregistrated.
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use SU12** Manufacture of plastics products, including compounding and conversion
- **Article category AC13** Plastic articles
- **Application of the substance / the mixture** Raw material for plastics
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SYNRES-ALMOCO BV.
Hoek van Holland
The Netherlands
Tel.No.: ++31(0)174/389999
Fax.No.: ++31(0)174/389988
RASCHIG GMBH
Mundenheimer Str. 100
D-67061 Ludwigshafen/Rhein
Tel.No.: ++49 (0)621/5618-0
Fax No.: ++49 (0)621/588285
e-mail : info@raschig.de
- **Further information obtainable from:**
Plastics Division/QMK
Phone: ++49 (0)621/5618-359
Fax: ++49 (0)621/5618-357
Contact: msds-plastics@raschig.de
- **Emergency telephone number:**
For Chemical Emergency
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)
CHEMTREC China: 4001-204937
CHEMTREC Japan: +(81) 345209637
CHEMTREC Korea : Local Number: +(82)-070-7686-0086, Toll Free Number: 00-308-13-2549

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



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Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2 H319 Causes serious eye irritation.
 Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS07

· Signal word Warning

· Hazard-determining components of labelling:

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)

tetrabromophthalic anhydride

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash 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 / eye protection / face 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.

P362+P364 Take off contaminated clothing and wash it before reuse.

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

P321 Specific treatment (see on this label).

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Dangerous components:

CAS: 25068-38-6 NLP: 500-033-5	Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) ----- ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥ 10 -<25%
CAS: 632-79-1 EINECS: 211-185-4 RTECS: TI3350000	tetrabromophthalic anhydride ----- ⚠ Skin Sens. 1, H317	10-25%

· SVHC Does not contain SVHC substances

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
In case of irritation consult an oculist .
Rinse opened eye for several minutes under running water.
- **After swallowing:** Rinse out mouth and then drink plenty of water.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
Carbon monoxide and carbon dioxide
Danger of forming toxic pyrolysis products.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid formation of dust.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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- **6.3 Methods and material for containment and cleaning up:**
Pick up mechanically.
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Development and deposition of dust has to be avoided.
Provide suction extractors if dust is formed.
- **Information about fire - and explosion protection:**
Substance/product is self extinguishing, but can burn when combined with flammable material.
Dust can combine with air to form an explosive mixture.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
- **Recommended storage temperature:** < 15 °C
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:**
Take appropriate measures against dust.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace, currently derivation of DNEL's isn't required in such cases.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Do not inhale gases / fumes / aerosols / dust.
Do not eat, drink, smoke or sniff while working.
- **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
Not necessary if room is well-ventilated.
- **Recommended filter device for short term use:**
Filter FFP1
Filter FFP2

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- Filter A
- **Protection of hands:**
- **Material of gloves**
Nitrile rubber, NBR
Recommended material strength: ≥ 0.11 mm
- **Penetration time of glove material**
Penetration time ≥ 8 h
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

- | | |
|----------------|----------------------------------|
| Form: | Granulate |
| Colour: | Different according to colouring |
| Odour: | Nearly odourless |

- | | |
|------------------|-----------------|
| pH-value: | Not determined. |
|------------------|-----------------|

· Change in condition

- | | |
|---|----------------|
| Melting point/freezing point: | > 80 °C |
| Initial boiling point and boiling range: | Not applicable |

- | | |
|---------------------|-----------------|
| Flash point: | Not applicable. |
|---------------------|-----------------|

- | | |
|-----------------------------------|-----------------|
| Decomposition temperature: | Not determined. |
|-----------------------------------|-----------------|

- | | |
|-----------------------------------|------------------------------|
| Auto-ignition temperature: | Product is not selfigniting. |
|-----------------------------------|------------------------------|

- | | |
|------------------------------|-----------------|
| Explosive properties: | Not determined. |
|------------------------------|-----------------|

· Explosion limits:

- | | |
|---------------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

- | | |
|-------------------------|-----------------|
| Vapour pressure: | Not determined. |
|-------------------------|-----------------|

- | | |
|--------------------------|--|
| Density at 20 °C: | ~ 1.75 - 2.00 g/cm ³ |
|--------------------------|--|

- | | |
|-------------------------------|---------------------------------------|
| Bulk density at 20 °C: | ~ 700 - 1000 kg/m ³ |
|-------------------------------|---------------------------------------|

- | | |
|-----------------------|-----------------|
| Vapour density | Not determined. |
|-----------------------|-----------------|

- | | |
|-------------------------|-----------------|
| Evaporation rate | Not determined. |
|-------------------------|-----------------|

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

- | | |
|--|-----------------|
| Partition coefficient: n-octanol/water: | Not determined. |
|--|-----------------|

· Viscosity:

- | | |
|-------------------|-----------------|
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |

- | | |
|------------------------------|--|
| 9.2 Other information | No further relevant information available. |
|------------------------------|--|

- | | |
|----------------|----------------|
| VOC USA | 0 %, ASTM 2369 |
|----------------|----------------|

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· VOC European Union %	0 %
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SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Danger of forming toxic pyrolysis products.
- **Additional information:** No further relevant information available.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Mechanical irritation possible
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
Not a sensitizing agent.
May cause an allergic skin reaction.
- **Chronic toxicity:**
Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** 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** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **Degree of elimination:**
- **Classification:**
Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.

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- **Other information:** No data available.
- **12.3 Bioaccumulative potential** The bioaccumulation potential is considered to be negligible
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Water hazard class 1 (Self-assessment): slightly hazardous for water (Germany)
According to appendix 4 VwVwS (German regulation)
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation :**
Disposal considering to the local / regional / national / international regulations. Details have to be arranged with the authority concerned and / or the local waste management enterprise.
- **Waste disposal key:**
Depending on the application intended by the consumer, the allocation of waste codes according to the European waste catalogue has to be carried out in agreement with the waste disposal company and the authority.
- **Uncleaned packaging:**
- **Recommendation:**
Non contaminated packagings may be recycled.
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

- | | |
|--|-----------------|
| · 14.1 UN-Number | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards: | Not applicable. |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |

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- | | |
|--|---|
| · Transport/Additional information: | <i>Not dangerous according to the above specifications.</i> |
| · UN "Model Regulation": | <i>Void</i> |

SECTION 15: Regulatory information

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

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **IECSC Chinese Chemical Inventory of Existing Chemical Substances**

All ingredients are listed.

- **TSCA (Low Volume Exemption)**

None of the ingredients is listed.

- **Australian Inventory of Chemical Substances**

All ingredients are listed.

- **SWISS**

All ingredients are listed.

- **Japan, ENCS Existing and New Chemical Substance List**

All ingredients are listed.

- **Korea, KECI Korean Existing Chemical Inventory Korea**

All ingredients are listed.

- **Taiwan Toxic Chemical Substances List**

All ingredients are listed.

- **TCSI, Taiwan Chemical Substance Inventory**

None of the ingredients is listed.

- **DSL Domestic Substances List**

All ingredients are listed.

- **NDSL Non-Domestic Substances List**

None of the ingredients is listed.

- **Philippines Inventory of Chemicals and Chemical Substances**

All ingredients are listed.

- **NZIoC, New Zealand Inventory of Chemicals**

All ingredients are listed.

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



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- **Signal word** Warning
- **Hazard-determining components of labelling:**
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)
tetrabromophthalic anhydride
- **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash 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 / eye protection / face 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.
P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment (see on this label).
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
- **Breakdown regulations:** Breakdown Directive : Not Part of Annex 1 (German Regulation)
- **Technical instructions (air):**
- **Paragraph : / Class :**
5.2.1// Germany (German regulation)
5.2.2 Germany
- **Other regulations, limitations and prohibitive regulations**
- **BG-Device : (Germany)** Consider BG-device " Static electrification" (Germany)
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Further product information see under technical data sheet
By using suitable industrial safety precautions, it is paramount to make sure that the relevant exposition measures at the work place are adhered to, and negative health effects are avoided.

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- **Relevant phrases**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

- **Department issuing SDS:**

Division Plastics/QMK

Tel. ++49 (0) 621/5618-359

Fax ++49 (0)621/5618-357

- **Contact:** *msds-plastics@raschig.de*

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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