

Safety Data Sheet

According to Regulation (EC) No 1907/2006

GP 14 / Resin

Date of issue/Date of revision: 29.03.2021

en / GB - Version 1.2

1. Identification of the substance/preparation and of the company/undertaking**1.1 Identification of the substance or preparation:**

GP 14

1.2 Use of the substance/preparation:

Model building material / resin

1.3 Company/undertaking identification

Company name: Gößl + Pfaff GmbH
 Street: Münchener Str. 13
 Place: 85123 Karlskron/Brautlach
 Telephone: +49 (0) 8450 / 932-0
 Fax.: +49 (0) 8450 / 932-13
 Contact person: Management: Mr. Gößl, Mr. Pfaff
 E-Mail: info@goessl-pfaff.de
 Internet: www.goessl-pfaff.de
 Responsible Department: Management

1.4 Emergency telephone**Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0) 6132-84463****2. Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazardous components for labelling**

bis-[4-(2,3-epoxipropoxy)phenyl]propane;

Bisphenol F-epichlorohydrin resin;

Gamma-Mercaptopropyltrimethoxysilan

Signal word: Warning**Pictograms:****Hazard statements**

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.

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Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Special labelling of certain mixtures

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

None known.

3. Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Mixture of the following substances with non-hazardous admixtures

Hazardous components

CAS-No.	Chemical name	Quantity
	EC No Index-No REACH-No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	40 – <45 %
	216-823-5 603-073-002 01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411	
9003-36-5	Bisphenol F-epichlorohydrin resin	10 – <15 %
	500-006-8 01-2119454392-40	
	Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H317 H411	
4420-74-0	Gamma-Mercaptopropyltrimethoxysilan	<1 %
	Acute Tox. 4, Skin Sens. 1, Aquatic Chronic 2; H302 H317 H411	

Full text of H and EUH phrases: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1675-54-3	216-823-5	4,4'-Methylen-diphenyldiglycidylether (vgl. Bis(4,4'-glycidyoxyphenyl)-propan)	40–<45 %
		dermal: LD50 = 23000 mg/kg; oral: LD50 = 11400 mg/kg Skin Irrit. 2; H315: >= 5–100 Eye Irrit. 2; H319: >= 5–100	
9003-36-5	500-006-8	Bisphenol F-epichlorohydrin resin	10–<15 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
4420-74-0	224-588-5	Gamma-mercaptopropyltrimethoxysilane	<1 %
		dermal: LD50 = 2247 mg/kg; oral: LD50 = 850 mg/kg	

Further Information

none

4. First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.
 Remove affected person from the danger area and lay down.

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After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.
In case of respiratory tract irritation, consult a physician.

After contact with skin

Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.
Never give anything by mouth to an unconscious person or a person with cramps.
Call a physician immediately.
Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself.

4.3. Indication of any immediate medical attention and special treatment needed

There are no data available on the mixture itself.

5. Fire-fighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Foam, Carbon dioxide (CO₂), Dry extinguishing powder, Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated:
Carbon monoxide, Carbon dioxide

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

In case of vapour formation use respirator.
Ensure adequate ventilation.
Wear personal protection equipment (refer to section 8).
Keep away from sources of ignition - No smoking.

6.2. Environmental precautions

Clear contaminated areas thoroughly.
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

None

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7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed.
Provide adequate ventilation.
Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool well-ventilated place.
Protect against direct sunlight.

Hints on joint storage

Incompatible materials: Alkali (lye), Amines, Alcohols

Further information on storage conditions

Keep away from food, drink and animal feedingstuffs.
Keep at temperatures between 5 °C and 40 °C.

7.3. Specific end use(s)

No information available.

8. Exposure controls personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	Fibres/ml	Category	Origin
7727-43-7	Barium sulphate, inhalable dust	-	10		TWA (8 h)	WEL

DNEL/DMEL values

CAS-No	Substance		
DNEL type	Exposure route	Effect	Value
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane		
Worker DNEL, long-term	inhalation	systemic	12,25 mg/m ³
Worker DNEL, acute	inhalation	systemic	12,25 mg/m ³
Worker DNEL, long-term	dermal	systemic	8,33 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	8,33 mg/kg bw/day
9003-36-5	Bisphenol F-epichlorohydrin resin		
Worker DNEL, long-term	dermal	systemic	104,15 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	29,39 mg/m ³

PNEC values

CAS No	Substance	Value
Environmental compartment		Value
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	
Freshwater		0,006 mg/l
Freshwater (intermittent releases)		0,018 mg/l
Marine water		0,0006 mg/l
Freshwater sediment		0,996 mg/kg
Marine sediment		0,0996 mg/kg
Secondary poisoning		11 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,196 mg/kg

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9003-36-5	Bisphenol F-epichlorohydrin resin	
Freshwater		0,003 mg/l
Marine water		0,0003 mg/l
Freshwater sediment		0,294 mg/kg
Marine sediment		0,0294 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
soil		0,237 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.

Protective and hygiene measures

Do not breathe vapour.

Wash hands before breaks and after work

Do not eat, drink or smoke when using this product.

Avoid contact with skin, eyes and clothes.

Remove and wash contaminated clothes before re-use.

Eye/face protection

Tightly fitting goggles

Hand protection

Protective gloves resistant to chemicals made off natural-rubber latex, Minimum coat thickness 0.4 mm,

Permeation resistance (wear duration) approx. 480 minutes,

butyl rubber (Butyl) - = 0.7 mm thickness;

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection

Wear suitable protective clothing.

Safety Shoes

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

If product is sprayed, use fresh-air breathing apparatus or (only short-term use) a combination filter A2-P2.

Environmental exposure controls

There are no data available on the mixture itself.

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:

Paste

Colour:

beige

Odour:

not determined

pH-Value:

not determined

Changes in the physical state

Melting point:

not determined

Boiling point or initial boiling point and boiling range:

> 200 °C

Flash point:

> 100 °C

Flammability

Solid/liquid:

not determined

Gas:

not determined

Explosive properties

Product does not present an explosion hazard.

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Decomposition temperature: >200 °C

Oxidizing properties

not applicable

Vapour pressure:

not determined

Density (at 20 °C):

1,6 g/cm³

Partition coefficient n-octanol/water:

not determined

Viscosity / dynamic: (at 20 °C)

170.000 mPa·s

Relative vapour density:

not determined

Evaporation rate:

not determined

9.2. Other information

There are no data available on the mixture itself.

10. Stability and reactivity**10.1. Reactivity**

Exothermic reaction with: Alkali (lye), Amines, Alcohol

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Alkali (lye), Amines, Alcohol

10.6. Hazardous decomposition products

The product is stable under storage at normal ambient temperatures.

11. Toxicological information**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1675-54-3	bis-[4-(2,3-epoxypropoxy)phenyl]propane				
	oral	LD50 11.400 mg/kg	Rat		
	dermal	LD50 23.000 mg/kg	Rat		
9003-36-5	Bisphenol F-epichlorohydrin resin				
	oral	LD50 >2.000 mg/kg	Rat		
	dermal	LD50 >2.000 mg/kg	Rat		
4420-74-0	Gamma-Mercaptopropyltrimethoxysilan				
	oral	LD50 850 mg/kg	Rat		
	dermal	LD50 2247 mg/kg	Rat		

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

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Sensitising effects

Contains epoxy constituents. May produce an allergic reaction. May cause an allergic skin reaction. (bis-[4-(2,3-epoxipropoxy)phenyl]propane; Bisphenol F-epichlorohydrin resin; Gamma-Mercaptopropyltrimethoxysilan)

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards Endocrine disrupting properties

There are no data available on the mixture itself.

Other information

There are no data available on the mixture itself.

12. Ecological information**12.1. Toxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane					
	Acute fish toxicity	LC50 2 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 11 mg/l	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 1,8 mg/l	48 h	Daphnia magna (Big water flea)		
9003-36-5	Bisphenol F-epichlorohydrin resin					
	Acute fish toxicity	LC50 2,54 mg/l	96 h	fish		
	Acute algae toxicity	ErC50 >1.000 mg/l	72 h	algae		
	Acute crustacea toxicity	EC50 2,55 mg/l	48 h	Daphnia magna (Big water flea)		

12.2. Persistence and degradability

There are no data available on the mixture itself.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
9003-36-5	Bisphenol F-epichlorohydrin resin			
	Biodegradable (OECD): 301 B	16 %	28	
	Poorly biodegradable.			

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	3,242
9003-36-5	Bisphenol F-epichlorohydrin resin	3,3

BCF

CAS No	Chemical name	BCF	Species	Source
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	31		

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

There are no data available on the mixture itself.

12.7. Other adverse effects

There are no data available on the mixture itself.

Further information

Do not allow to enter into surface water or drains

13. Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

It is not possible to give this product a waste code number according to the European waste catalogue because only the intended use of the user consents the assignment of a specific code number.

The waste code number must be agreed with the disposer / manufacturer / competent authority.

Contaminated packaging

Contaminated packaging are to be treated like the product itself.

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

Packing which cannot be properly cleaned must be disposed of.

14. Transport information**Land transport (ADR/RID)****14.1. UN number:**

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide derivatives)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

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Transport category: 3
 Hazard No: 90
 Tunnel restriction code: (-)

Marine transport (IMDG)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide derivatives)

14.3. Transport hazard class(es): 9

14.4. Packing group: III
Hazard label: 9



Marine pollutant: yes
 Special Provisions: 274, 335, 969
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide derivatives)

14.3. Transport hazard class(es): 9

14.4. Packing group: III
Hazard label: 9



Special Provisions: A97 A158 A197
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y964
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 964
 IATA-max. quantity - Passenger: 450 L
 IATA-packing instructions - Cargo: 964
 IATA-max. quantity - Cargo: 450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

**14.6. Special precautions for user**

There are no data available on the mixture itself.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

There are no data available on the mixture itself.

Other applicable information

There are no data available on the mixture itself.

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15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII): Entry 3

Additional information

This product does not contain substances of very high concern > 0,1% (Regulation (EC) No 1907/2006 (REACH), Article 57).

National regulatory information

Water contaminating class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Bisphenol F-epichlorohydrin resin

16. Other information**Changes**

This data sheet contains changes from the previous version in section(s) 3, 4, 9, 11, 14, 15

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H- and EUH-phrases (Number and full text)

H302 Harmful if swallowed.
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.
EUH205 Contains epoxy constituents. May produce an allergic reaction.

Further Information

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

Key literature references and sources for data Regulation (EC) No 1907/2006; Regulation (EC) No. 1272/2008

The information of this MSDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this MSDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.