

Safety Data Sheet

According to Regulation (EC) No 1907/2006

GP 14 / Resin

Date of issue/Date of revision: 26.06.2024

en / EU - Version 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier** GP 14

UFI: 9UH4-7CT3-QV15-CGNP

1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/preparation:** Model building material / Resin**Uses advised against:** There are no data available on the mixture itself.**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 number**Emergency CONTACT (24-Hour-Number): +49 (0) 6132-84463 GBK GmbH Global Regulatory Compliance, Ingelheim****SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Skin Irrit. 2; H315

Eye Irrit. 2; H319

Skin Sens. 1; H317

Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

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.

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.

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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.

SECTION 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 Regulation (EC) No. 1272/2008			
1675-54-3	bis-[4-(2,3-epoxipropoxi)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. 1A, Aquatic Chronic 2; H315 H317 H411			
4420-74-0	Gamma-mercaptopropyltrimethoxysilane			< 1 %
	224-588-5		01-2120763539-41	
	Acute Tox. 4, Acute Tox. 4, Skin Sens. 1, Aquatic Chronic 2; H312 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	bis-[4-(2,3-epoxipropoxi)phenyl]propane	40 – < 45 %
	dermal: LD50 = > 23000 mg/kg; oral: LD50 = > 15000 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 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg		
4420-74-0	224-588-5	Gamma-mercaptopropyltrimethoxysilane	< 1 %
	dermal: LD50 = 2247 mg/kg; oral: LD50 = 850 mg/kg		

Further Information

none

SECTION 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.

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 water/soap.
 If skin irritation or rash occurs: Get medical advice/attention.

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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.

SECTION 5: Firefighting 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.

SECTION 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.

For emergency responders

Protective equipment

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

For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

None

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SECTION 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.

Advice on general occupational hygiene

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.

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	Fibres/ml	Category	Origin
7727-43-7	Barium sulphate, respirable dust	-	5		TWA (8 h)	

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	4,93 mg/m ³
Worker DNEL, acute	inhalation	systemic	12,3 mg/m ³
Worker DNEL, long-term	dermal	systemic	8,3 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	8,3 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
Worker DNEL, acute	dermal	local	0,0083 mg/cm ²

PNEC values

CAS No	Substance	
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

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Marine water		0,0006 mg/l
Freshwater sediment		0,341 mg/kg
Marine sediment		0,034 mg/kg
Secondary poisoning		11 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,065 mg/kg
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.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Tightly fitting goggles

Hand protection

Chemical-resistant gloves (EN 374)

Suitable materials also for extended, direct contact (recommended: protection index 6, corresponding to a permeation rate > 480 minutes according to EN 374):

Butyl rubber (Butyl) - = 0.7 mm thickness

Nitrile rubber (Nitrile) - 0.4 mm thickness

Because of the great variety of glove types, the manufacturer's instructions for use must be adhered to.

The data given refer to information from glove manufacturers or have been assessed by analogy to similar materials.

It should be taken into consideration, that due to the great number of influential factors such as the temperature, the daily durability of chemicals resistant protective gloves may be considerably reduced in practice, compared to the permeation rate assessed according to EN 374.

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.

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

Physical state:	Paste
Colour:	beige
Odour:	not determined

Test method

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	> 200 °C

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Flammability:	not determined	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	> 100 °C	
Auto-ignition temperature:	not determined	
Decomposition temperature:	> 200 °C	
pH-Value:	not determined	
Viscosity / kinematic:	not determined	
Water solubility:	Immiscible	
Solubility in other solvents:	not determined	
Dissolution rate:	not determined	
Partition coefficient n-octanol/water:	not determined	
Dispersion stability:	not determined	
Vapour pressure:	not determined	
Density (at 20 °C):	1,6 g/cm ³	DIN EN/ ISO 2811-1
Relative vapour density:	not determined	
Particle characteristics:	not applicable	

9.2 Other information

Information with regard to physical hazard classes

Explosive properties

Product does not present an explosion hazard.

Other safety characteristics

Viscosity / dynamic:
(at 20 °C)

170.000 mPa·s DIN 53019-1

Further Information

There are no data available on the mixture itself.

SECTION 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.

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

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Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l;

ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane				
	oral	LD50 >15000 mg/kg	Rat		
	dermal	LD50 >23.000 mg/kg	Rat		
9003-36-5	Bisphenol F-epichlorohydrin resin				
	oral	LD50 >5.000 mg/kg	Rat		
	dermal	LD50 >5.000 mg/kg	Rat		
4420-74-0	Gamma-mercaptopropyltrimethoxysilane				
	oral	LD50 850 mg/kg	Rat		
	dermal	LD50 2247 mg/kg	Rat		

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitising effects

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

Contains epoxy constituents. May produce an allergic reaction

Carcinogenic/mutagenic/toxic effects 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.

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.

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SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name					Source	Method
	Aquatic toxicity	Dose	[h] [d]	Species			
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 >1.8 mg/l	72 h	Algae			
	Acute crustacea toxicity	EC50 >1000 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				
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane			
	OECD 302B	12 %	28	
Not readily biodegradable (according to OECD criteria)				
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.

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	3,6

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

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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

SECTION 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.

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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.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID 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
Transport category:	3
Hazard No:	90
Tunnel restriction code:	-

Marine transport (IMDG)

14.1. UN number or ID 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 or ID 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

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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. Maritime transport in bulk according to IMO instruments

There are no data available on the mixture itself.

Other applicable information

There are no data available on the mixture itself.

SECTION 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, Entry 75

Additional information

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

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

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

National regulatory information

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

15.2. Chemical safety assessment

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

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

Bisphenol F-epichlorohydrin resin

SECTION 16: Other information

This version replaces version 1.2 from 29.03.2021

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Abbreviations and acronyms

Acute Tox: Acute toxicity
 Skin Irrit: Skin irritation
 Eye Irrit: Eye irritation
 Skin Sens: Skin sensitisation
 Aquatic Chronic: Chronic aquatic hazard
 UFI: Unique Formula Identifier
 DNEL: Derived No-Effect Level
 PBT: persistent and bioaccumulative and toxic
 vPvB: Very persistent and very bioaccumulative

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.
 H312 Harmful in contact with skin.
 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]

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

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.