

Safety Data Sheet

According to Regulation (EC) No 1907/2006

GP 14 / Hardener

Date of issue/Date of revision: 06.06.2025

en / EU - Version 2.0

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

GP 14

UFI:

WXH4-RCGH-0V1N-0U7R

1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/preparation:**

Model building material / Hardener

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 Corr. 1B; H314

Eye Dam. 1; H318

Skin Sens. 1; H317

STOT RE 2; H373

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

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

Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine;

2-piperazin-1-ylethylamine;

Triethylenetetramine

Signal word: Danger**Pictograms:****Hazard statements**

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P264

Wash hands thoroughly after handling.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/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.

P310 Immediately call a POISON CENTER/doctor.

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Amine hardener

Relevant ingredients

CAS-No.	Chemical name			Quantity
	EC No	Index-No	REACH-No	
	Classification according to Regulation (EC) No. 1272/2008			
68082-29-1	Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine			15 – < 20 %
	500-191-5		01-2119972320-44	
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H315 H318 H317 H411			
140-31-8	2-piperazin-1-ylethylamine			1 – < 5 %
	205-411-0	612-105-00-4	01-2119471486-30	
	Repr. 2, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, STOT RE 1, Aquatic Chronic 3; H361fd H311 H302 H314 H318 H317 H372 H412			
90640-67-8	Triethylenetetramine			1 – < 5 %
	292-588-2		01-2119457919-13	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H317 H412			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
68082-29-1	500-191-5	Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	15 - < 20 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		
140-31-8	205-411-0	2-piperazin-1-ylethylamine	1 - < 5 %
	dermal: LD50 = 866 mg/kg; oral: LD50 = 2140 mg/kg		
90640-67-8	292-588-2	Triethylenetetramine	1 - < 5 %
	dermal: LD50 = 1465 mg/kg; oral: LD50 = 1716 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.

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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 water/soap.
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.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.
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:
Nitrogen oxides (NO_x), Carbon monoxide, Carbon dioxide (CO₂)

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****For non-emergency personnel**

In case of vapour formation use respirator.
Provide adequate ventilation.
Keep away from sources of ignition - No smoking.

For emergency responders

Protective equipment

6.2. Environmental precautions

Clean contaminated surface thoroughly.
Do not allow to enter into surface water or drains.
Local authorities should be advised if significant spillages cannot be contained.

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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

Wear personal protection equipment (refer to section 8).

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/Store only in original container.

Keep container tightly closed in a cool, well-ventilated place.

Protect against direct sunlight.

Further information on storage conditions

Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

There are no data available on the mixture itself.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m3	fib/ml	Category	Origin
7727-43-7	Barium sulphate, inhalable dust	-	5		TWA (8 h)	

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
68082-29-1	Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine			
	Worker DNEL, long-term	dermal	systemic	1,1 mg/kg bw/day
	Worker DNEL, acute	inhalation	systemic	0,97 mg/m3

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140-31-8	2-piperazin-1-ylethylamine		
Worker DNEL, acute	dermal	local	0,04 mg/cm ²
Worker DNEL, long-term	dermal	local	0,006 mg/cm ²
Worker DNEL, acute	dermal	systemic	20 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	3,3 mg/kg bw/day
Worker DNEL, acute	inhalation	systemic	10,6 mg/m ³
Worker DNEL, long-term	inhalation	systemic	10,6 mg/m ³
Worker DNEL, acute	inhalation	local	80 mg/m ³
Worker DNEL, long-term	inhalation	local	0,015 mg/m ³
90640-67-8	Triethylenetetramine		
Worker DNEL, long-term	dermal	systemic	0,57 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	1 mg/m ³

PNEC values

CAS No	Substance	Value
Environmental compartment		Value
68082-29-1	Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	
Freshwater		0,00434 mg/l
Freshwater (intermittent releases)		0,0434 mg/l
Marine water		0,00043 mg/l
Freshwater sediment		434,02 mg/kg
Marine sediment		43,4 mg/kg
Micro-organisms in sewage treatment plants (STP)		3,84 mg/l
Soil		88,78 mg/kg
140-31-8	2-piperazin-1-ylethylamine	
Freshwater		0,058 mg/l
Marine water		0,0058 mg/l
Freshwater sediment		215 mg/kg
Marine sediment		21,51 mg/kg
Micro-organisms in sewage treatment plants (STP)		250 mg/l
Soil		1 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

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

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

Tightly fitting goggles

Hand protection

Protective gloves resistant to chemicals made off nitrile, 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.

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

Physical state:	Paste		
Colour:	grey		
Odour:	not determined		
Melting point/freezing point:	not determined		Test method
Boiling point or initial boiling point and boiling range:	not determined		
Flammability:	not applicable		
Lower explosion limits:	not determined		
Upper explosion limits:	not determined		
Flash point:	> 100 °C		
Auto-ignition temperature:	not determined		
Decomposition temperature:	not determined		
pH-Value:	not determined		
Viscosity / kinematic:	not determined		
Water solubility (at 20 °C):	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)	160.000 mPa·s	DIN 53019-1
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Further Information

There are no data available on the mixture itself.

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

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Acids

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

Protect against direct sunlight.

10.5. Incompatible materials

Oxidising agent, strong, Acids, Alkali (lye)

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10.6. Hazardous decomposition productsAmmonia, Nitrogen oxides (NO_x), Carbon monoxide, Carbon dioxide**Further information**

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****Acute toxicity**

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

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 5000 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
68082-29-1	Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine				
	oral	LD50 >2.000 mg/kg	Rat		
	dermal	LD50 >2.000 mg/kg	Rat		
140-31-8	2-piperazin-1-ylethylamine				
	oral	LD50 2140 mg/kg	Rat	SDB	
	dermal	LD50 866 mg/kg	Rabbit	SDB	
90640-67-8	Triethylenetetramine				
	oral	LD50 1.716 mg/kg	Rat		
	dermal	LD50 1.465 mg/kg	Rabbit		

Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage.

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

Sensitising effects

May cause an allergic skin reaction. (Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine; 2-piperazin-1-ylethylamine; Triethylenetetramine)

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

May cause damage to organs through prolonged or repeated exposure. (2-piperazin-1-ylethylamine)

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**Observations relevant to classification**

There are no data available on the mixture itself.

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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.

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		[h] [d]	Species	Source	Method
	Aquatic toxicity	Dose				
68082-29-1	Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine					
	Acute fish toxicity	LC50 7,07 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute crustacea toxicity	EC50 7,07 mg/l	48 h	Daphnia magna (Big water flea)		
140-31-8	2-piperazin-1-ylethylamine					
	Acute fish toxicity	LC50 190 mg/l	96 h	Pimephales promelas (fathead minnow)	SDB	
	Acute algae toxicity	ErC50 >1000mg/l	72 h	Selenastrum capricornutum	SDB	
	Acute crustacea toxicity	EC50 58 mg/l	48 h	Daphnia magna (Big water flea)	SDB	
90640-67-8	Triethylenetetramine					
	Acute fish toxicity	LC50 330 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute crustacea toxicity	EC50 31,1 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		Value	d	Source
	Method	Evaluation			
68082-29-1	Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine				
	OECD 301 D		4 %	28	
	Poorly biodegradable.				
140-31-8	2-piperazin-1-ylethylamine				
	OECD 301F		0 %	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
68082-29-1	Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	10,34
140-31-8	2-piperazin-1-ylethylamine	-1,48

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.

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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.

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 packagings 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 2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8 
Classification code:	C7
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard no:	80
Tunnel restriction code:	E

Marine transport (IMDG)

14.1. UN number or ID number:	UN 2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S (Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8 

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Marine pollutant: yes
 Special Provisions: 274
 Limited quantity: 1 L
 Excepted quantity: E2
 EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2735
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Special Provisions: A3 A803
 Limited quantity Passenger: 0.5 L
 Passenger LQ: Y840
 Excepted quantity: E2
 IATA-packing instructions - Passenger: 851
 IATA-max. quantity - Passenger: 1 L
 IATA-packing instructions - Cargo: 855
 IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

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 contaminating 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:

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SECTION 16: Other information

This version replaces version 1.2 from 27.06.2019

Abbreviations and acronyms

Acute Tox: Acute toxicity
 Skin Corr: Skin corrosion
 Skin Irrit: Skin irritation
 Eye Dam: Eye damage
 Skin Sens: Skin sensitisation
 Repr: Reproductive toxicity
 STOT RE: Specific target organ toxicity - repeated exposure
 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 Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Chronic 3; H412	Calculation method

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

H302 Harmful if swallowed.
 H311 Toxic in contact with skin.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
 H372 Causes damage to organs (respiratory tracts) through prolonged or repeated exposure (inhalation, skin contact).
 H373 May cause damage to organs through prolonged or repeated exposure.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

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.