

Safety Data Sheet

According to Regulation EC No. 1907/2006

GP 21 beige / Hardener

Date of issue/Date of revision: 24.06.2021

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 21

1.2 Use of the substance/preparation:

Adhesives, sealants.
Industrial use

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

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

Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Skin sensitisation, Category 1	H317
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms:


Signal word: Danger

Contains:

Methyl Methacrylate;

Hazard statements:

H225: Highly flammable liquid and vapour.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H335: May cause respiratory irritation.
 H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P261: Avoid breathing vapours.

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P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

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

2.3. Other hazards

Other hazards:

PBT: not yet assessed

vPvB: not yet assessed

3. Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008
Methyl Methacrylate substance with a Community workplace exposure limit	CAS-No. 80-62-6 EC-No. 201-297-1 EC Index-No. 607-035-00-6 REACH-No. 01-2119452498-28	≥ 75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335
Acrylic Copolymer substance with a Community workplace exposure limit		≥ 10 – < 20	Not classified
3,5-Diethyl-1,2-Dihydro-1-Phenyl-2-Propylpyridine	CAS-No. 34562-31-7 EC-No. 252-091-3	≥ 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315
2,6-Di-Tert-Butyl-P-Cresol	CAS-No. 128-37-0 EC-No. 204-881-4 REACH-No. 01-2119565113-46	< 1	Aquatic Chronic 1, H410

Full text of H-statements: see section 16

4. First aid measures

4.1. Description of first aid measures

General:

Get medical advice/attention if you feel unwell.

After Inhalation:

Remove person to fresh air and keep comfortable for breathing.

Get medical advice/attention.

After skin contact:

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

If skin irritation occurs: Get medical advice/attention.

After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If eye irritation persists: Get medical advice/attention.

After ingestion:

Rinse mouth out with water.

Get medical advice/attention.

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

After Inhalation:

Inhalation may cause irritation (cough, short breathing, difficulty in breathing).

May cause shortness of breath, tightness of the chest, a sore throat and cough.

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After skin contact:

Irritation (itching, redness, blistering).

After eye contact:

Redness, itching, tears.

After ingestion:

Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:

dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).

Unsuitable extinguishing media:

Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard:

Flammable liquid and vapour.

Hazardous decomposition products in case of fire:

Carbon dioxide.

Carbon monoxide.

Toxic fumes may be released.

5.3. Advice for fire-fighters

Precautionary measures fire:

Eliminate all ignition sources if safe to do so.

Firefighting instructions:

Do not enter fire area without proper protective equipment, including respiratory protection.

Use water spray or fog for cooling exposed containers.

Eliminate all ignition sources if safe to do so.

Protection during firefighting:

Use self-contained breathing apparatus and chemically protective clothing.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures:

Do not handle until all safety precautions have been read and understood.

6.1.1. For non-emergency personnel

Protective equipment:

Wear recommended personal protective equipment.

Emergency procedures:

Keep upwind.

Evacuate unnecessary personnel.

Only qualified personnel equipped with suitable protective equipment may intervene.

Measures in case of dust release:

Do not inhale dusts, particulates and spray mist when using this preparation.

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6.1.2. For emergency responders

Protective equipment:

Use self-contained breathing apparatus and chemically protective clothing.

Emergency procedures:

Stop leak if safe to do so.

Cover spill with non combustible material, e.g.: sand/earth.

6.2. Environmental precautions

Do not allow to enter drains or water courses.

Do not allow product to spread into the environment.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb spilled material with sand or earth.

Methods for cleaning up:

Clean up any spills as soon as possible, using an absorbent material to collect it.

Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Other information:

Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

7. Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Precautions for safe handling:

Avoid contact with skin, eyes and clothing.

Do not handle until all safety precautions have been read and understood.

Ensure good ventilation of the work station.

Handling temperature: 13–27 °C

Hygiene measures:

Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Store in a well-ventilated place.

Keep container tightly closed.

Incompatible products:

Oxidizing agent.

Strong acids.

Incompatible materials:

Sources of ignition.

Storage temperature: 13–27 °C

Storage area:

Store in a well-ventilated place. Store away from heat.

Special rules on packaging:

Keep only in original container.

Packaging materials:

Keep only in the original container in a cool, well-ventilated place away from combustible materials.

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7.3. Specific end use(s)

Adhesives, sealants.

8. Exposure controls/personal protection

8.1 Control parameters:

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure that there is a suitable ventilation system.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves.

Protective clothing.

Safety glasses.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

Type: Safety glasses

Field of application: Droplet

Characteristics: With side shields

Standard: EN 166

Skin and body protection:

Type: Disposable gloves

Standard: EN 374-2

Hand protection: Nitrile rubber gloves

Type: Disposable gloves

Material: Nitrile rubber (NBR)

Permeation: 2 (> 30 minutes)

Thickness (mm): < 0.7

Penetration: 2 (< 1.5)

Standard: EN ISO 374

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8.2.2.3. Respiratory protection

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Device: Full face mask

Filter type: ABEK- Hg/P3

Condition: Vapour protection

Standard: EN 14387

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Yellow liquid.
Odour:	Characteristic odour.
Odour threshold:	No data available
pH:	No data available
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	-48 °C Based on MMA
Freezing point:	No data available
Boiling point:	100.5 °C Based on MMA
Flash point:	15 °C
Auto-ignition temperature:	421 °C Based on MMA
Decomposition temperature:	No data available
Flammability (solid, gas):	No data available
Vapour pressure:	53hPa@20C
Relative vapour density at 20 °C:	No data available
Relative density:	0.96
Solubility:	No data available
Partition coefficient n-octanol/water (Log Pow):	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
Explosive limits	No data available

9.2. Other information

VOC content: 56–57 %

10. Stability and reactivity

10.1. Reactivity:

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

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10.4. Conditions to avoid:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials**Material to avoid:**

Strong acids. Oxidizing agent.

10.6. Hazardous decomposition products

May liberate toxic gases.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral): Not classified

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

METHYL METHACRYLATE (80-62-6)

LD50 oral rat > 5000 mg/kg

LD50 oral 29.8 mg/l 4hrs

LD50 dermal rabbit > 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

LD50 oral rat > 2930 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)

LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

ACRYLIC COPOLYMER

LD50 oral rat > 5000 mg/kg

LD50 dermal rabbit > 5000 mg/kg

LC50 Inhalation - Rat (Dust/Mist) > 3.4 mg/l/4h

Skin corrosion/irritation: Causes severe skin burns.**Serious eye damage/irritation:** Not classified.**Respiratory or skin sensitization:** May cause an allergic skin reaction.**Germ cell mutagenicity:** Not classified**Carcinogenicity:** Not classified**2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)**

NOAEL (chronic, oral, animal/male, 2 years) 25 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:Effect type: toxicity (migrated information)

Reproductive toxicity: Not classified**STOT-single exposure:** May cause respiratory irritation.**METHYL METHACRYLATE (80-62-6)**

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure: Not classified**2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)**

LOAEL (oral, rat, 90 days) 100 mg/kg bodyweight Animal: rat, Animal sex: male

NOAEL (oral, rat, 90 days) 25 mg/kg bodyweight Animal: rat, Animal sex: male

Aspiration hazard: Not classified

12. Ecological information

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12.1 Toxicity

Hazardous to the aquatic environment, short-term (acute):
Not classified

Hazardous to the aquatic environment, long-term (chronic):
Harmful to aquatic life with long lasting effects.

Not rapidly degradable

METHYL METHACRYLATE (80-62-6)

LC50 - Fish [1]	> 79 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	69 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 110 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	37 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	9.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35d'

2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

LC50 - Fish [1]	0.199 mg/l
EC50 - Crustacea [1]	0.48 mg/l Test organisms (species): Daphnia magna
EC50-Other aquatic organisms [1]	0.48 mg/l Aquatic invertebrates
EC50 72h - Algae [1]	> 0.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	0.758 mg/l
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.023 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.053 mg/l Test organisms (species): Oryzias latipes Duration: '42 d'

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

Bioconcentration factor (BCF REACH)	598
Partition coefficient n-octanol/water (Log Pow)	5.2

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

PBT: not yet assessed

vPvB: not yet assessed

12.6. Other adverse effects

No additional information available

13. Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste):

Disposal must be done according to official regulations.

Waste treatment methods:

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations:

Disposal must be done according to official regulations.

Product/Packaging disposal recommendations:

Dispose in a safe manner in accordance with local/national regulations.

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Additional information:






Industrial waste.

Ecology - waste materials:

Avoid release to the environment.

14. Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1133	UN 1133	UN 1133	UN 1133	UN 1133
14.2. UN proper shipping name				
ADHESIVES (Methyl Methacrylate)	ADHESIVES (Methyl Methacrylate)	Adhesives (Methyl Methacrylate)	ADHESIVES (Methyl Methacrylate)	ADHESIVES (Methyl Methacrylate)
Transport document description				
UN 1133 ADHESIVES (Methyl Methacrylate), 3, II, (D/E)	UN 1133 ADHESIVES (Methyl Methacrylate), 3, II	UN 1133 Adhesives (Methyl Methacrylate), 3, II	UN 1133 ADHESIVES (Methyl Methacrylate), 3, II	UN 1133 ADHESIVES (Methyl Methacrylate), 3, II
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user**Overland transport**

Classification code (ADR):	F1
Special provisions (ADR)	640D
Limited quantities (ADR)	5I
Excepted quantities (ADR)	E2
Packing instructions (ADR)	P001, IBC02, R001
Special packing instructions (ADR)	PP1
Mixed packing provisions (ADR)	MP19
Portable tank and bulk container instructions (ADR)	T4
Portable tank and bulk container special provisions (ADR)	TP1, TP8
Tank code (ADR)	LGBF
Vehicle for tank carriage	FL
Transport category (ADR)	2
Special provisions for carriage - Operation (ADR)	S2, S20

Hazard identification number (Kemler No.)

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Orange plates	33 1133
Tunnel restriction code (ADR)	D/E
Transport by sea	
Limited quantities (IMDG)	5L
Excepted quantities (IMDG)	E2
Packing instructions (IMDG)	P001
IBC packing instructions (IMDG)	PP1
Tank instructions (IMDG)	IBC02
Tank special provisions (IMDG)	T4
EmS-No. (Fire)	TP1, TP8
EmS-No. (Spillage)	F-E
Stowage category (IMDG)	S-D
Stowage and handling (IMDG)	B
Properties and observations (IMDG)	Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.
Air transport	
PCA Excepted quantities (IATA)	E2
PCA Limited quantities (IATA)	Y341
PCA limited quantity max net quantity (IATA)	1L
PCA packing instructions (IATA)	353
PCA max net quantity (IATA)	5L
CAO packing instructions (IATA)	364
CAO max net quantity (IATA)	60L
Special provisions (IATA)	A3
ERG code (IATA)	3L
Inland waterway transport	
Classification code (ADN)	F1
Special provisions (ADN)	640D
Limited quantities (ADN)	5L
Excepted quantities (ADN)	E2
Equipment required (ADN)	PP, EX, A
Ventilation (ADN)	VE01
Number of blue cones/lights (ADN)	1
Rail transport	
Classification code (RID)	F1
Special provisions (RID)	640D
Limited quantities (RID)	5L
Excepted quantities (RID)	E2
Packing instructions (RID)	P001, IBC02, R001
Special packing provisions (RID)	PP1
Mixed packing provisions (RID)	MP19
Portable tank and bulk container instructions (RID)	T4
Portable tank and bulk container special provisions (RID)	TP1, TP8
Tank codes for RID tanks (RID)	LGBF
Transport category (RID)	2

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Colis express (express parcels) (RID)	CE7
Hazard identification number (RID)	33

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content: 56 – 57 %

15.1.2. National regulations

No additional information available

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

16. Other information

Abbreviations and acronyms:

CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
ED	Endocrine disrupting properties
EN	European Standard
IARC	International Agency for Research on Cancer
IOELV	Indicative Occupational Exposure Limit Value
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level

N.O.S. Not Otherwise Specified

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NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
vPvB	Very Persistent and Very Bioaccumulative
VOC	Volatile Organic Compounds
WGK	Water Hazard Class

Data sources: ECHA (European Chemicals Agency).

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

The classification complies with: ATP 12

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.