

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 06-Mar-2018

Print date: 06-Mar-2018

Version: 2.0

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PUR Auto Glass Adhesive

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

1.1 Product identifier

Trade name/designation:

PUR Auto Glass Adhesive

Article No.:

SK-1060B, SK-1060K

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:

Adhesives, sealants.

Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

ProGlass GmbH

Michael-Becker-Str. 2

73235 Weilheim an der Teck

GERMANY

Telephone: +49 7023 90013-0

Telefax: +49 7023 90013-23

E-mail: info@proglass.de

Website: www.proglass.de

E-mail (competent person): info@proglass.de

1.4 Emergency phone number

24h: +49 551 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation (Resp. Sens. 1)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Calculation

2.2 Label elements

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

Hazard pictograms:



GHS08

Health hazard

Signal word: Danger

Hazard components for labelling:

4,4'-Methylenediphenyl diisocyanate, oligomers; 4,4'-Methylenediphenyl diisocyanate; o-(p-Isocyanatobenzyl)phenyl isocyanate

Hazard statements for health hazards	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Supplemental hazard information (EU)	
EUH204	Contains isocyanates. May produce an allergic reaction.

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Precautionary statements - Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.

Precautionary statements - Response

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Precautionary statements - Disposal

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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2.3 Other hazards

No data available.

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Ingredients:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Content
CAS No.: 71662-46-9 EC No.: 275-809-7	1,2-Benzenedicarboxylic acid, di-C8-10-alkyl esters	> 10 - < 20 Wt %
CAS No.: 28553-12-0 EC No.: 249-079-5	Diisononyl phthalate	< 10 Wt %
CAS No.: 25686-28-6 EC No.: 500-040-3	4,4'-Methylenediphenyl diisocyanate, oligomers STOT SE 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2, STOT RE 2  Danger H315-H317-H319-H332-H334-H335-H351-H373	> 0.1 - < 1 Wt %
CAS No.: 101-68-8 EC No.: 202-966-0	4,4'-Methylenediphenyl diisocyanate STOT SE 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2, STOT RE 2  Danger H315-H317-H319-H332-H334-H335-H351-H373	> 0.1 - < 1 Wt %
CAS No.: 5873-54-1 EC No.: 227-534-9	o-(p-Isocyanatobenzyl)phenyl isocyanate STOT SE 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2, STOT RE 2  Danger H315-H317-H319-H332-H334-H335-H351-H373	> 0.1 - < 1 Wt %

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Get medical advice/attention if you feel unwell.

In case of skin contact:

Remove contaminated, saturated clothing immediately. Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water. In case of skin irritation, consult a physician.

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After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause skin irritation. May cause eye irritation. May cause respiratory irritation. May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO₂), Sand, Extinguishing blanket

Unsuitable extinguishing media:

Strong water jet

5.2 Special hazards arising from the substance or mixture

Exothermic reaction with: Water, Formation of carbon dioxide (CO₂), Danger of bursting container.

Hazardous combustion products:

In case of fire may be liberated: Isocyanates, Nitrogen oxides (NO_x), carbon oxides (CO_x). Possible in traces: Hydrogen cyanide (hydrocyanic acid)

5.3 Advice for firefighters

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

5.4 Additional information

Heating causes rise in pressure with risk of bursting. Move undamaged containers from immediate hazard area if it can be done safely. Beware of reignition. 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

6.1.1 For non-emergency personnel

Personal precautions:

Avoid contact with skin, eyes and clothes. Do not breathe gas/vapour/aerosol. Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection. See section 8.

6.1.2 For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Disposal: see section 13.

For cleaning up:

Clean floors and contaminated objects with: Water with tenside additive

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6.4 Reference to other sections

Safe handling: see section 7.

Personal protection equipment: see section 8.

Disposal: see section 13.

6.5 Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Advices on safe handling:

Provide adequate ventilation. Conditions to avoid: Aerosol or mist formation. While curing by reaction with moisture the following substances are formed and released: carbon dioxide (CO₂). Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes. Always close containers tightly after the removal of product. Wear personal protection equipment (refer to section 8).

Environmental precautions:

Discharge into the environment must be avoided.

Advices on general occupational hygiene

Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Protect from frost and heat. Protect from moisture.

Requirements for storage rooms and vessels:

Keep/Store only in original container.

Hints on storage assembly:

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Recommendation:

Adhesives, sealants.

SECTION 8: Exposure controls / Personal protection

8.1 Control parameters

8.1.1 Occupational exposure limit values

Limit value type (country)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	Diisononyl phthalate CAS No.: 28553-12-0	① 5 mg/m ³
WEL (GB)	4,4'-Methylenediphenyl diisocyanate CAS No.: 101-68-8	① 0.02 mg/m ³ ② 0.07 mg/m ³ ⑤ (as -NCO)
IOELV (EU)	Carbon dioxide CAS No.: 124-38-9	① 5,000 ppm (9,000 mg/m ³)
WEL (GB)	Carbon dioxide CAS No.: 124-38-9	① 5,000 ppm (9,150 mg/m ³) ② 15,000 ppm (27,400 mg/m ³)

8.1.2 Biological limit values

No data available.

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8.1.3 DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route ③ Exposure time
4,4'-Methylenediphenyl diisocyanate, oligomers CAS No.: 25686-28-6	0.1 mg/m ³	① DNEL worker ② DNEL acute inhalative (systemic)
4,4'-Methylenediphenyl diisocyanate, oligomers CAS No.: 25686-28-6	0.1 mg/m ³	① DNEL worker ② DNEL acute inhalative (local)
4,4'-Methylenediphenyl diisocyanate, oligomers CAS No.: 25686-28-6	0.05 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
4,4'-Methylenediphenyl diisocyanate, oligomers CAS No.: 25686-28-6	0.05 mg/m ³	① DNEL worker ② DNEL long-term inhalative (local)
4,4'-Methylenediphenyl diisocyanate, oligomers CAS No.: 25686-28-6	50 mg/kg	① DNEL worker ② DNEL acute dermal, short-term (systemic) ③ 24 h

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide adequate ventilation as well as local exhaust at critical locations.

8.2.2 Personal protection equipment



Eye/face protection:

Eye glasses with side protection (EN 166).

Skin protection:

Tested protective gloves must be worn (EN 374).

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material $\geq 0,5$ mm

Suitable material: IIR (Butyl rubber)

Thickness of the glove material $\geq 0,7$ mm

Breakthrough time (maximum wearing time): ≥ 480 min

The statement is derived from the properties of the main components. The suitability of the glove material for the handling of the product has not been verified. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. Recommendation: Draw up and observe skin protection programme.

Respiratory protection:

Usually no personal respirative protection necessary. Provide adequate ventilation. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Combination filtering device (EN 14387), Filtering device (full mask or mouthpiece) with filter: A/P2

Other protection measures:

Wear suitable protective clothing.

8.2.3 Environmental exposure controls

No data available.

8.3 Additional information

No data available.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid, pasty

Colour: black

Odour: slightly sweet

Safety relevant basic data

Parameter		at	Method	Remark
pH	<i>not applicable</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	> 100 °C			estimated
Evaporation rate	<i>not determined</i>			
Ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not applicable</i>			
Relative density	1.33 g/ml			
Bulk density	<i>not applicable</i>			
Water solubility	insoluble			Decomposition
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions. Exothermic reaction with: Water, Formation of carbon dioxide (CO₂), Danger of bursting container. Violent reaction with: Oxidising agent, strong; Reducing agent, strong; Acid, concentrated; Alkali (lye), concentrated; ME-compounds

10.4 Conditions to avoid

Keep away from heat. Protect from moisture.

10.5 Incompatible materials

oxidizing agent, Reducing agent, Acids, alkali (lye), ME-compounds.

10.6 Hazardous decomposition products

In case of fire may be liberated: Isocyanates, Nitrogen oxides (NO_x), carbon oxides (CO_x). Possible in traces: Hydrogen cyanide (hydrocyanic acid) Decomposition with: Water, Formation of carbon dioxide (CO₂).

Further information

No data available.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

May cause skin irritation.

Serious eye damage/irritation:

May cause eye irritation.

Respiratory or skin sensitisation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity:

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

Carcinogenicity:

Based on available data, the classification criteria are not met.
methylenediphenyl diisocyanate(MDI)/4,4'-Methylenediphenyl diisocyanate, oligomers; Aerosol,
Longterm animal experiment.: May cause cancer by inhalation.

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. particulates and dust: May cause respiratory irritation.

STOT-repeated exposure:

Based on available data, the classification criteria are not met.
ingredients in Longterm animal experiment.: May cause damage the named organs: kidneys, liver.
methylenediphenyl diisocyanate(MDI)/4,4'-Methylenediphenyl diisocyanate, oligomers; Aerosol,
Longterm animal experiment.: May cause damage to organs through prolonged or repeated exposure.
Organs affected: Respiratory tract, lung

Aspiration hazard:

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

Additional information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

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

12.2 Persistence and degradability

Biodegradation:

Poorly biodegradable.

12.3 Bioaccumulative potential

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4 Mobility in soil

Not relevant.

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

No data available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Dispose of waste according to applicable legislation. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Other disposal recommendations:

The allocation of waste code numbers / waste names must be carried out in accordance with the European Waste Catalogue (EWC). Collect in closed and suitable containers for disposal. Do not allow to enter into surface water or drains.

13.2 Additional information

Waste for disposal is to be classified and labelled.

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1 UN-No.

not relevant

14.2 UN proper shipping name

not relevant

14.3 Transport hazard class(es)

not relevant

14.4 Packing group

not relevant

14.5 Environmental hazards

not relevant

14.6 Special precautions for user

not relevant

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

not relevant

Additional information:

No data available.

SECTION 15: Regulatory information

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

15.1.1 EU legislation

Other EU regulations:

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work. Observe restrictions to employment for juvenils 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.

15.1.2 National regulations

No data available.

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15.2 Chemical Safety Assessment

No data available.

15.3 Additional information

No data available.

SECTION 16: Other information

16.1 Indication of changes

Changes executed in version 2.0:

Section 2: classification, Label elements

General revision

16.2 Abbreviations and acronyms

See overview table at www.euphrac.eu

16.3 Key literature references and sources for data

European Chemicals Agency (ECHA): <http://www.echa.europa.eu>

ECHA, C&L Inventory: <http://echa.europa.eu/information-on-chemicals/cl-inventory-database>

ECHA, Registered substances: <http://echa.europa.eu/information-on-chemicals/registered-substances>

GESTIS (Gefahrstoffinformationssystem der DGUV): <http://www.dguv.de/ifa/GESTIS/index.jsp>

Hörath Gefährliche Stoffe und Gemische, 8. Auflage, Dr. Angela Schulz

Safety data sheets of the manufacturers

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

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation (<i>Resp. Sens. 1</i>)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Calculation

16.5 Relevant H- and EUH-phrases

Hazard statements	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

16.6 Training advice

No data available.

16.7 Additional information

The information in this safety data sheet has been established to our best knowledge and was up-to-date at time of revision. The information is intended to give you advice about the safe handling of the product for storage, processing, transport and disposal. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

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All-in-One Primer

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

1.1 Product identifier

Trade name/designation:

All-in-One Primer

Article No.:

SP-0010, SP-1010

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:

Coatings.

Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

ProGlass GmbH

Michael-Becker-Str. 2

73235 Weilheim an der Teck

GERMANY

Telephone: +49 7023 90013-0

Telefax: +49 7023 90013-23

E-mail: info@proglass.de

Website: www.proglass.de

E-mail (competent person): info@proglass.de

1.4 Emergency phone number

24h: +49 551 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	Test data
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	Calculation
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	Calculation
Respiratory or skin sensitisation (<i>Resp. Sens. 1</i>)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Calculation

2.2 Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS08
Health hazard

Signal word: Danger

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Hazard components for labelling:

4,4'-Methylenediphenyl diisocyanate; 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; 2-Butanone (MEK); Phenol, 4-Isocyanato-,1,1',1''-Phosphorthionate, Reaktionsmass with 3-(Trimethoxysilyl)-N-[3-(trimethoxysilyl)propyl]-1-propanamine

Hazard statements for physical hazards

H225 Highly flammable liquid and vapour.

Hazard statements for health hazards

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H336 May cause drowsiness or dizziness.

Supplemental hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements - Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P280 Wear protective gloves and eye/face protection.

Precautionary statements - Response

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.








2.3 Other hazards

No data available.

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Ingredients:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Content
CAS No.: 78-93-3 EC No.: 201-159-0 REACH No.: 01-2119457290-43	2-Butanone (MEK) STOT SE 3, Flam. Liq. 2, Eye Irrit. 2   Danger H225-H319-H336-EUH066	35 - 45 Wt %
CAS No.: 141-78-6 EC No.: 205-500-4 REACH No.: 01-2119475103-46	ethyl acetate STOT SE 3, Flam. Liq. 2, Eye Irrit. 2   Danger H225-H319-H336-EUH066	10 - 15 Wt %
CAS No.: 4435-53-4 EC No.: 224-644-9	3-methoxybutyl acetate	< 10 Wt %
CAS No.: 4151-51-3 EC No.: 223-981-9 REACH No.: 01-2119948848-16	Tris(p-isocyanatophenyl) thiophosphate Acute Tox. 4  Warning H302	< 10 Wt %
CAS No.: 108-65-6 EC No.: 203-603-9 REACH No.: 01-2119475791-29	1-Methoxy-2-methylethylacetate STOT SE 3, Flam. Liq. 3   Warning H226-H336	< 10 Wt %

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All-in-One Primer

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Content
CAS No.: 950747-06-5 EC No.: 480-190-3 REACH No.: 01-0000020067-76	Phenol, 4-Isocyanato-,1,1',1''-Phosphorthionate, Reaktionsm ass with 3-(Trimethoxysilyl)-N-[3-(trimethoxysilyl)propyl]-1- propanamine Resp. Sens. 1, Skin Sens. 1, Aqua. Chronic 4  Danger H317-H334-H413	1 - 5 Wt %
CAS No.: 123-86-4 EC No.: 204-658-1 REACH No.: 01-2119485493-29	n-Butyl acetate STOT SE 3, Flam. Liq. 3   Warning H226-H336	1 - 5 Wt %
CAS No.: 101-68-8 EC No.: 202-966-0 REACH No.: 01-2119457014-47	4,4'-Methylenediphenyl diisocyanate STOT SE 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2, STOT RE 2   Danger H315-H317-H319-H332-H334-H335-H351-H373	0.1 - 1 Wt %
CAS No.: 4098-71-9 EC No.: 223-861-6 REACH No.: 01-2119490408-31	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate STOT SE 3, Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Aqua. Chronic 2    Danger H315-H317-H319-H331-H334-H335-H411	< 0.5 Wt %
CAS No.: 108-90-7 EC No.: 203-628-5	Chlorobenzene Flam. Liq. 3, Acute Tox. 4, Aqua. Chronic 2    Warning H226-H332-H411	< 0.5 Wt %

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing immediately. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. Get medical advice/attention if you feel unwell.

In case of skin contact:

Remove contaminated, saturated clothing immediately. Wash immediately with: Water and soap. In case of skin irritation, consult a physician.

After eye contact:

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. If eye irritation persists: Get medical advice/attention.

After ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions, Drowsiness, Dizziness, Causes eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour.

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Hazardous combustion products:

In case of fire may be liberated: carbon black, carbon monoxide (CO), carbon dioxide (CO₂), Nitrogen oxides (NO_x), Pyrolysis products, toxic.

5.3 Advice for firefighters

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

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. 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

6.1.1 For non-emergency personnel

Personal precautions:

Remove persons to safety. Keep away from sources of ignition - No smoking. Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection. See section 8.

6.1.2 For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For containment:

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

Collect in closed and suitable containers for disposal. Disposal: see section 13.

For cleaning up:

Solvents/Thinner.

6.4 Reference to other sections

Safe handling: see section 7.

Personal protection equipment: see section 8.

Disposal: see section 13.

6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Advices on safe handling:

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes. Wear personal protection equipment (refer to section 8).

Fire prevent measures:

Highly flammable liquid and vapour. Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Take precautionary measures against static discharge.

Environmental precautions:

Discharge into the environment must be avoided.

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Advices on general occupational hygiene

Wash hands before breaks and after work. When using do not eat, drink or smoke. Take off contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

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

Requirements for storage rooms and vessels:

Material, solvent-resistant. Keep/Store only in original container.

Hints on storage assembly:

Keep away from combustible material. Do not store together with: Oxidizing agent

Further information on storage conditions:

Protect from sunlight. Store in a well-ventilated place.

7.3 Specific end use(s)

Recommendation:

Hardener

SECTION 8: Exposure controls / Personal protection

8.1 Control parameters

8.1.1 Occupational exposure limit values

Limit value type (country)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IOELV (EU)	2-Butanone (MEK) CAS No.: 78-93-3	① 200 ppm (600 mg/m ³) ② 300 ppm (900 mg/m ³)
WEL (GB)	2-Butanone (MEK) CAS No.: 78-93-3	① 200 ppm (600 mg/m ³) ② 300 ppm (899 mg/m ³)
WEL (GB)	ethyl acetate CAS No.: 141-78-6	① 200 ppm (730 mg/m ³) ② 400 ppm (1,460 mg/m ³)
IOELV (EU)	ethyl acetate CAS No.: 141-78-6	① 200 ppm (734 mg/m ³) ② 400 ppm (1,468 mg/m ³)
WEL (GB)	1-Methoxy-2-methylethylacetate CAS No.: 108-65-6	① 50 ppm (274 mg/m ³) ② 100 ppm (548 mg/m ³)
IOELV (EU)	1-Methoxy-2-methylethylacetate CAS No.: 108-65-6	① 50 ppm (275 mg/m ³) ② 100 ppm (550 mg/m ³) ⑤ (May be absorbed through the skin.)
MEL/OES (GB)	n-Butyl acetate CAS No.: 123-86-4	① 150 ppm (724 mg/m ³) ② 200 ppm (966 mg/m ³)
WEL (GB)	4,4'-Methylenediphenyl diisocyanate CAS No.: 101-68-8	① 0.02 mg/m ³ ② 0.07 mg/m ³ ⑤ (as -NCO)
WEL (GB)	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate CAS No.: 4098-71-9	① 0.02 mg/m ³ ② 0.07 mg/m ³ ⑤ (Isocyanates, all: as -NCO)
IOELV (EU)	Chlorobenzene CAS No.: 108-90-7	① 5 ppm (23 mg/m ³) ② 15 ppm (70 mg/m ³)

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Limit value type (country)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	Chlorobenzene CAS No.: 108-90-7	① 1 ppm (4.7 mg/m ³) ② 3 ppm (14 mg/m ³) ⑤ (May be absorbed through the skin.)

8.1.2 Biological limit values

No data available.

8.1.3 DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route ③ Exposure time
2-Butanone (MEK) CAS No.: 78-93-3	600 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
2-Butanone (MEK) CAS No.: 78-93-3	1,161 mg/kg bw/day	① DNEL worker ② DNEL long-term dermal (systemic)
1-Methoxy-2-methylethylacetate CAS No.: 108-65-6	275 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
1-Methoxy-2-methylethylacetate CAS No.: 108-65-6	153.5 mg/kg bw/day	① DNEL worker ② DNEL long-term dermal (systemic)
4,4'-Methylenediphenyl diisocyanate CAS No.: 101-68-8	0.0001 g/m ³	① DNEL worker ② DNEL acute inhalative (systemic)
4,4'-Methylenediphenyl diisocyanate CAS No.: 101-68-8	0.0001 g/m ³	① DNEL worker ② DNEL acute inhalative (local)
4,4'-Methylenediphenyl diisocyanate CAS No.: 101-68-8	0.05 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)
4,4'-Methylenediphenyl diisocyanate CAS No.: 101-68-8	0.05 mg/m ³	① DNEL worker ② DNEL long-term inhalative (local)
4,4'-Methylenediphenyl diisocyanate CAS No.: 101-68-8	50 mg/kg	① DNEL worker ② DNEL acute dermal, short-term (systemic) ③ 24 h
4,4'-Methylenediphenyl diisocyanate CAS No.: 101-68-8	28.7 mg/m ³	① DNEL worker ② DNEL acute dermal, short-term (local)

Substance name	PNEC value	① PNEC type
2-Butanone (MEK) CAS No.: 78-93-3	55.8 mg/L	① PNEC aquatic, freshwater
2-Butanone (MEK) CAS No.: 78-93-3	55.8 mg/L	① PNEC aquatic, marine water
2-Butanone (MEK) CAS No.: 78-93-3	55.8 mg/L	① PNEC aquatic, intermittent release
2-Butanone (MEK) CAS No.: 78-93-3	709 mg/L	① PNEC sewage treatment plant (STP)
2-Butanone (MEK) CAS No.: 78-93-3	284.74 mg/ kg bw/day	① PNEC sediment, freshwater
2-Butanone (MEK) CAS No.: 78-93-3	284.7 mg/kg bw/day	① PNEC sediment, marine water
2-Butanone (MEK) CAS No.: 78-93-3	22.5 mg/kg bw/day	① PNEC soil, freshwater

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Substance name	PNEC value	① PNEC type
2-Butanone (MEK) CAS No.: 78-93-3	1,000 mg/kg bw/day	① PNEC Secondary Poisoning
1-Methoxy-2-methylethylacetate CAS No.: 108-65-6	0.635 mg/L	① PNEC aquatic, freshwater
1-Methoxy-2-methylethylacetate CAS No.: 108-65-6	0.0635 mg/L	① PNEC aquatic, marine water
1-Methoxy-2-methylethylacetate CAS No.: 108-65-6	6.35 mg/L	① PNEC aquatic, intermittent release
1-Methoxy-2-methylethylacetate CAS No.: 108-65-6	100 mg/L	① PNEC sewage treatment plant (STP)
1-Methoxy-2-methylethylacetate CAS No.: 108-65-6	3.29 mg/kg	① PNEC sediment, freshwater
1-Methoxy-2-methylethylacetate CAS No.: 108-65-6	0.329 mg/kg bw/day	① PNEC sediment, marine water
1-Methoxy-2-methylethylacetate CAS No.: 108-65-6	0.29 mg/kg	① PNEC soil, freshwater
4,4'-Methylenediphenyl diisocyanate CAS No.: 101-68-8	1 mg/L	① PNEC aquatic, freshwater
4,4'-Methylenediphenyl diisocyanate CAS No.: 101-68-8	0.1 mg/L	① PNEC aquatic, marine water
4,4'-Methylenediphenyl diisocyanate CAS No.: 101-68-8	10 mg/L	① PNEC aquatic, intermittent release
4,4'-Methylenediphenyl diisocyanate CAS No.: 101-68-8	1 mg/L	① PNEC sewage treatment plant (STP)
4,4'-Methylenediphenyl diisocyanate CAS No.: 101-68-8	1 mg/kg	① PNEC soil, freshwater

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide adequate ventilation as well as local exhaust at critical locations.

8.2.2 Personal protection equipment



Eye/face protection:

Eye glasses with side protection (EN 166).

Skin protection:

Tested protective gloves must be worn (EN 374).

Suitable material: Butyl caoutchouc (butyl rubber)

Material thickness: $\geq 0,5$ mm

Breakthrough time (maximum wearing time): ≥ 60 min

The statement is derived from the properties of the main components. The suitability of the glove material for the handling of the product has not been verified. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. Recommendation: Draw up and observe skin protection programme.

Respiratory protection:

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Suitable respiratory protection apparatus: Combination filtering device (EN 14387), Filtering device (full mask or mouthpiece) with filter: AP3

Other protection measures:

Wear anti-static footwear and clothing

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8.2.3 Environmental exposure controls

No data available.

8.3 Additional information

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid

Colour: black

Odour: like Acetone

Safety relevant basic data

Parameter		at	Method	Remark
pH	<i>not determined</i>			
Melting point	-86 °C			
Freezing point	-86 °C			
Initial boiling point and boiling range	80 °C			2-Butanone (MEK)
Decomposition temperature	<i>not determined</i>			
Flash point	-10 °C		c.c.	estimated
Evaporation rate	<i>not determined</i>			
Ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	1.8 - 11.5 Vol-%			2-Butanone (MEK)
Vapour pressure	12.6 hPa	50 °C		2-Butanone (MEK)
Vapour density	<i>not determined</i>			
Relative density	0.9 - 1 g/ml	20 °C		
Bulk density	<i>not applicable</i>			
Water solubility	easily soluble			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			
Solubility in different media				miscible with most organic solvents

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Highly flammable liquid and vapour.

10.2 Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions. Vapours can form explosive mixtures with air. Possibility of hazardous reactions/Exothermic reaction with: Oxidising agent, Acids, Alkali (lye).

10.4 Conditions to avoid

Keep away from heat.

10.5 Incompatible materials

Oxidising agent, Reducing agent, Acids, Alkali (lye).

10.6 Hazardous decomposition products

No known hazardous decomposition products. In case of fire may be liberated: carbon black, carbon monoxide (CO), carbon dioxide (CO₂), Nitrogen oxides (NO_x), Pyrolysis products, toxic.

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Further information

No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

CAS No.	Substance name	Toxicological information
108-65-6	1-Methoxy-2-methylethylacetate	LD₅₀ oral: >5,000 mg/kg (Ratte) LD₅₀ dermal: >5,000 mg/kg (Kanninchen) LC₅₀ inhalative: 35.7 mg/L (Ratte)
123-86-4	n-Butyl acetate	LD₅₀ oral: 10,800 mg/kg (Ratte) LD₅₀ dermal: 17,600 mg/kg (Kaninchen) LC₅₀ inhalative: 1.85 mg/L 4 h (Ratte)
101-68-8	4,4'-Methylenediphenyl diisocyanate	LC₅₀ inhalative: 0.368 mg/L 4 h (Rat)
78-93-3	2-Butanone (MEK)	LD₅₀ oral: >2,193 mg/kg (Ratte) LD₅₀ dermal: >5,000 mg/kg (Kaninchen)

Acute oral toxicity:

No data available.

Acute dermal toxicity:

No data available.

Acute inhalation toxicity:

No data available.

Skin corrosion/irritation:

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

May cause skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

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:

May cause drowsiness or dizziness.

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.

Additional information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

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

Assessment/classification:

No data available.

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12.2 Persistence and degradability

Biodegradation:

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Dispose of waste according to applicable legislation. Completely emptied packages can be recycled.





Other disposal recommendations:

The allocation of waste code numbers / waste names must be carried out in accordance with the European Waste Catalogue (EWC). Collect in closed and suitable containers for disposal. Do not allow to enter into surface water or drains.

13.2 Additional information

Waste for disposal is to be classified and labelled.

SECTION 14: Transport information

Land transport (ADR / RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO- TI / IATA-DGR)
14.1 UN-No.			
1139	1139	1139	1139
14.2 UN proper shipping name			
Coating solution	Coating solution	Coating solution	Coating solution
14.3 Transport hazard class(es)			
 3	 3	 3	 3
14.4 Packing group			
II	II	II	II
14.5 Environmental hazards			
No	No	No	No
14.6 Special precautions for user			
No data available.			

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
not determined

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Additional information:

Transport as "Limited Quantity" according to chapter 3.4 ADR/RID

SECTION 15: Regulatory information

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

15.1.1 EU legislation

Other EU regulations:

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.1.2 National regulations

No data available.

15.2 Chemical Safety Assessment

No data available.

15.3 Additional information

No data available.

SECTION 16: Other information

16.1 Indication of changes

Changes executed in version 2:

Section 2, 3, 9, 11, 14: classification/Label elements

General revision

Changes executed in version 2.1:

General revision

16.2 Abbreviations and acronyms

See overview table at www.euphrac.eu

16.3 Key literature references and sources for data

European Chemicals Agency (ECHA): <http://www.echa.europa.eu>

ECHA, C&L Inventory: <http://echa.europa.eu/information-on-chemicals/cl-inventory-database>

ECHA, Registered substances: <http://echa.europa.eu/information-on-chemicals/registered-substances>

GESTIS (Gefahrstoffinformationssystem der DGUV): <http://www.dguv.de/ifa/GESTIS/index.jsp>

Hörath Gefährliche Stoffe und Gemische, 8. Auflage, Dr. Angela Schulz

Safety data sheets of the manufacturers

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

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	Test data
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	Calculation
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	Calculation
Respiratory or skin sensitisation (<i>Resp. Sens. 1</i>)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Calculation

16.5 Relevant H- and EUH-phrases

Hazard statements	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.

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Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

16.6 Training advice

No data available.

16.7 Additional information

The information in this safety data sheet has been established to our best knowledge and was up-to-date at time of revision. The information is intended to give you advice about the safe handling of the product for storage, processing, transport and disposal. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.