

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878



Print date: 14.09.2023
Version: 1-7

E-PU-Steinteppich Bindemittel
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. **product identifiers**

Identification of the substance or mixture **1K PU-Steinteppich Bindemittel EA**
UFI: 4XYN-RRW2-550F-C9C2

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

Relevant identified uses:

Coatings and paints, thinners, paint removers; Building and construction work; Professional use.

Uses advised against:

Consumer use. Product is not intended for consumer use.

1.3. **Details of the supplier of the safety data sheet**

supplier (manufacturer/importer/downstream user/distributor):

Megaplast
Bauchemie GmbH Telephone: + 49 7245 9197-0
Oberwaldstraße 1 Telefax: + 49 7245 9197-10
D-76474 Au am Rhein

Department responsible for information:

E-mail (competent person) ar@megaplast.eu

1.4. **Emergency telephone number**

Emergency telephone number: +44 (171) 635 91 91 National Poison Inform.
Centre, Medical Toxicology Unit, Avalonley Road,
London SE14 5ER

SECTION 2: Hazards identification

2.1. **Classification of the substance or mixture**

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.

2.2. **Label elements**

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

Hazard pictograms



Warning

Hazard statements

H332	Harmful if inhaled.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

Precautionary statements

P280	Wear protective gloves and eye/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Hazard components for labelling

Hexamethylen-1,6-diisocyanate oligomer
hexamethylene-di-isocyanate
Trimethoxyvinylsilan

Supplemental hazard information

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3. **Other hazards**

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No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description Mixture consisting of the following components

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

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
931-274-8 28182-81-2	01-2119485796-17 Hexamethylen-1,6-diisocyanate oligomer Acute Tox. 4 H332 / Skin Sens. 1 H317 / STOT SE 3 H335 Acute toxicity estimate (ATE): ATE (inhalation, vapour): 0,39 mg/L	75 - 100
229-194-7 6425-39-4	01-2119969278-20 2,2'-Dimorpholinyl-diethylether Skin Irrit. 2 H315 / Eye Irrit. 2 H319	2,5 - 10
220-449-8 2768-02-7 014-049-00-0	01-2119513215-52 Trimethoxyvinylsilan Acute Tox. 4 H332 / Skin Sens. 1B H317 / Flam. Liq. 3 H226 Acute toxicity estimate (ATE): ATE (inhalation, vapour): 16,80 mg/L	0,1 - 1
212-485-8 822-06-0 615-011-00-1	01-2119457571-37 hexamethylene-di-isocyanate Acute Tox. 3 H331 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Resp. Sens. 1 H334 / Skin Sens. 1 H317 / STOT SE 3 H335 Specific concentration limit (SCL): Resp. Sens. 1 H334 >= 0,5 / Skin Sens. 1 H317 >= 0,5 Acute toxicity estimate (ATE): ATE (inhalation, vapour): 0,12 mg/L	< 0,1

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

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Unsuitable extinguishing media

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Use appropriate container to avoid environmental contamination.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

People who spray this preparation should have regular pulmonary function tests.

7.1. Precautions for safe handling

Advices on safe handling

Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers. Keep away from amines, alcohols and water.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 10 °C and 25 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

People who spray this preparation should have regular pulmonary function tests.

8.1. Control parameters

Occupational exposure limit values:

not applicable

DNEL:

hexamethylene-di-isocyanate

*

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Index No. 615-011-00-1 / EC No. 212-485-8 / CAS No. 822-06-0

- DNEL short-term oral (acute), Workers: 0,07 mg/kg
- DNEL acute inhalative (local), Workers: 0,07 mg/m³
- DNEL acute inhalative (systemic), Workers: 0,07 mg/m³
- DNEL long-term inhalative (local), Workers: 0,035 mg/m³
- DNEL long-term inhalative (systemic), Workers: 0,035 mg/m³

Hexamethylen-1,6-diisocyanate oligomer

EC No. 931-274-8 / CAS No. 28182-81-2

- DNEL short-term oral (acute), Workers:
- DNEL acute inhalative (local), Workers: 1 mg/m³
- DNEL long-term inhalative (local), Workers: 0,5 mg/m³

2,2'-Dimorpholinyl-diethylether

EC No. 229-194-7 / CAS No. 6425-39-4

- DNEL long-term dermal (systemic), Workers: 1 mg/kg
- DNEL long-term inhalative (systemic), Workers: 7,28 mg/m³
- DNEL long-term oral (repeated), Consumer: 0,5 mg/kg bw/day
- DNEL long-term dermal (systemic), Consumer: 0,5 mg/kg bw/day
- DNEL long-term inhalative (systemic), Consumer: 1,8 mg/m³

Trimethoxyvinylsilan

Index No. 014-049-00-0 / EC No. 220-449-8 / CAS No. 2768-02-7

- DNEL long-term dermal (systemic), Workers: 3,9 mg/kg
- DNEL long-term inhalative (systemic), Workers: 260 mg/m³
- DNEL long-term oral (repeated), Consumer: 8 mg/kg
- DNEL acute inhalative (systemic), Consumer: 50 mg/m³
- DNEL long-term inhalative (systemic), Consumer: 6,7 mg/m³

PNEC:

hexamethylene-di-isocyanate

Index No. 615-011-00-1 / EC No. 212-485-8 / CAS No. 822-06-0

- PNEC aquatic, freshwater: > 77,4 µg/L
- PNEC aquatic, marine water: > 7,74 µg/L
- PNEC aquatic, intermittent release: > 774 µg/L
- PNEC sediment, freshwater: > 0,0133 mg/kg
- PNEC sediment, marine water: > 0,0013 mg/kg
- PNEC, soil: > 0,0026 mg/kg
- PNEC sewage treatment plant (STP): 8,42 mg/L

Hexamethylen-1,6-diisocyanate oligomer

EC No. 931-274-8 / CAS No. 28182-81-2

- PNEC sewage treatment plant (STP): 38,28 mg/L
- Method: OECD 209

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. When spraying, wear self-contained breathing apparatus. For other tasks a suitable respiratory system must be used, if local and room suction is not sufficient for keeping aerosol and solvent vapour concentration below the exposure limit values. (refer to Personal protection equipment.)

Personal protection equipment

Respiratory protection

Not necessary if room is well-ventilated. During spraying wear suitable respiratory equipment. When spraying, wear self-contained breathing apparatus.

Hand protection

For prolonged or repeated handling the following glove material must be used: PVC (polyvinyl chloride)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

Apron, Boots

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Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	translucent
Odour:	mild
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	not determined
Flammability:	Combustible liquid.
Lower and upper explosion limit:	
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Flash point:	> 160 °C
Auto-ignition temperature:	> 200 °C
Decomposition temperature:	not determined
pH at 20 °C:	not applicable
Cinematic Viskosity (23°C):	606,11 mm ² /s
Viscosity at 23 °C:	900 mPa* s
Solubility(ies):	
Water solubility at 20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	not determined
Density and/or relative density:	
Density at 20 °C:	1,150 g/cm ³ Method: DIN EN ISO 2811
Relative vapour density:	not determined
particle characteristics:	not applicable

9.2. Other information

Solid content:	94,00 weight-%
solvent content:	
Organic solvents:	0,5 weight-%
Water:	0,0 weight-%

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions. Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure.

10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

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not applicable

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if inhaled.

hexamethylene-di-isocyanate

oral, LD50, Rat: 959 mg/kg

Method: OECD 401

dermal, LD50, Rat: > 7000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: 0,124 mg/L (4 h)

Method: OECD 403

Hexamethylen-1,6-diisocyanate oligomer

oral, LD50, Rat: > 2500 mg/kg

Method: OECD 423

dermal, LD50, Rat: > 2000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: 0,39 mg/L (4 h)

Method: OECD 403

2,2'-Dimorpholinyl-diethylether

oral, LD50, Rat: 2025 mg/kg

dermal, LD50, Rabbit

Trimethoxyvinylsilan

oral, LD50, Rat: 7130 mg/kg

dermal, LD50, Rat: > 2000 mg/kg

dermal, LD50, Rabbit

inhalative (vapours), LC50, Rat: 16,8 mg/L (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

hexamethylene-di-isocyanate

Skin, OECD 404, Rabbit (4 h)

Respiratory or skin sensitisation

May cause an allergic skin reaction.

hexamethylene-di-isocyanate

Skin, OECD 406, Guinea pig:

Respiratory system, Positive data from in vivo immunological test (e.g. skin prick test)., Guinea pig:

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

STOT-single exposure; STOT-repeated exposure

May cause respiratory irritation.

Aspiration hazard

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

Practical experience/human evidence

Because of the isocyanate components' properties of this and with consideration of similar preparations the following applies: This mixture may cause acute irritation and/or sensitization of airways which lead to tightness in thorax, short-breath and asthmatic complaints. After sensitization even concentrations below the exposure limit values may cause asthma. Repeated inhaling can lead to permanent illness of the respiratory tract.

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

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There are no data available on the preparation/mixture itself.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
Do not allow to enter into surface water or drains.

12.1. Toxicity

hexamethylene-di-isocyanate

Fish toxicity, LC50, Danio rerio (zebrafish): 82,8 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 89,1 mg/L (48 h)
Bacteria toxicity, EC50: 842 mg/L (3 h)
Method: OECD 209

2,2'-Dimorpholinyl-diethylether

Fish toxicity, LC50, Danio rerio (zebrafish): 2150 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna: > 100 mg/L (48 h)
Bacteria toxicity, EC50: 1000 mg/L (3 h)

Long-term Ecotoxicity

hexamethylene-di-isocyanate

Fish toxicity, LOEC, Desmodemus subspicatus.: 12,6 mg/L (72 h)

12.2. Persistence and degradability

hexamethylene-di-isocyanate

: 42 % ; Evaluation Not readily biodegradable (according to OECD criteria)
Method: OECD F

2,2'-Dimorpholinyl-diethylether

Biodegradation, OECD 301C / ISO 9408 / EEC 92/69 annex V, C.4-F: 4 % (28 d)

12.3. Bioaccumulative potential

2,2'-Dimorpholinyl-diethylether

Partition coefficient: n-octanol/water: 0,5
Method: OECD 117

Bioconcentration factor (BCF)

2,2'-Dimorpholinyl-diethylether

Bioconcentration factor (BCF): 3

12.4. Mobility in soil

hexamethylene-di-isocyanate

log Koc.: 7,8

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. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. Handle contaminated packages in the same way as the substance itself. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

080111* Waste paint and varnish containing organic solvents or other dangerous substances

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

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Appropriate disposal / Package Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

No dangerous good in sense of this transport regulation.

14.1. **UN number or ID number**
not applicable

14.2. **UN proper shipping name**

14.3. **Transport hazard class(es)**
not applicable

14.4. **Packing group**
not applicable

14.5. **Environmental hazards**
Land transport (ADR/RID) not applicable
Marine pollutant not applicable

14.6. **Special precautions for user**
Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

Tunnel restriction code -

Sea transport (IMDG)

EmS-No. not applicable

14.7. **Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

EU legislation

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 5,403

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

VOC product category: (Cat. A/i) ; VOC limit value: 500 g/l

Maximum VOC content of the product in a ready to use condition (in g/L): 500,000

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

15.2. **Chemical Safety Assessment**

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

EC No. CAS No.	Designation	REACH No.
931-274-8 28182-81-2	Hexamethylen-1,6-diisocyanate oligomer	01-2119485796-17
229-194-7 6425-39-4	2,2'-Dimorpholinyl-diethylether	01-2119969278-20
220-449-8 2768-02-7	Trimethoxyvinylsilan	01-2119513215-52
212-485-8 822-06-0	hexamethylene-di-isocyanate	01-2119457571-37

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SECTION 16: Other information

Full text of classification in section 3:

Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1B / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Acute Tox. 3 / H331	Acute toxicity (inhalative)	Toxic if inhaled.
Resp. Sens. 1 / H334	Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Classification procedure

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

Acute Tox. 4	Acute toxicity (inhalative)	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version