

# Safety Data Sheet

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

Article No.: 965                      BLENDASOL Härter Typ 1620  
Print date: 27.12.2022            Revision date: 10.12.2022                      EN  
Version: 8.0                          Issue date: 10.12.2022                      Page 1 / 10

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

### 1.1. product identifiers

Article No. (manufacturer/supplier)                      965  
Trade name/designation                                      BLENDASOL Härter Typ 1620

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

#### Relevant identified uses:

Coating material to protecting surfaces

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

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

Vismara Unternehmungen CH-5000 Aarau www.farbladen.ch

#### Department responsible for information:

laboratory Manager

E-mail (competent person)

info@knuchel.ch

### 1.4. Emergency telephone number

Emergency telephone number                              145 (+41 (0)44 251 51 51)

## 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.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

### 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.  
H412                      Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P101                      If medical advice is needed, have product container or label at hand.  
P102                      Keep out of reach of children.  
P103                      Read carefully and follow all instructions.  
P261                      Avoid breathing vapours.  
P271                      Use only outdoors or in a well-ventilated area.  
P272                      Contaminated work clothing should not be allowed out of the workplace.  
P273                      Avoid release to the environment.  
P280                      Wear protective gloves and eye/face protection.  
P302 + P352            IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340            IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312                      Call a POISON CENTER or doctor/physician if you feel unwell.  
P333 + P313            If skin irritation or rash occurs: Get medical advice/attention.  
P362 + P364            Take off contaminated clothing and wash it before reuse.  
P403 + P233            Store in a well-ventilated place. Keep container tightly closed.  
P405                      Keep locked up.  
P501                      Dispose of contents/container to industrial incineration plant.

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## Hazard components for labelling

Aliphatic polyisocyanate  
4-isocyanatosulphonyltoluene  
hexamethylene-di-isocyanate

## Supplemental hazard information

EUH204 Contains isocyanates. May produce an allergic reaction.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Description** polyisocyanate hardener, containing the following hazardous substances:

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

EC No.	REACH No.	weight-%
CAS No.	Designation	
Index No.	classification // Remark	
160994-68-3	Aliphatic polyisocyanate Acute Tox. 4 H332 / Skin Sens. 1 H317 / STOT SE 3 H335 / Aquatic Chronic 3 H412	60 - 80
223-810-8 4083-64-1 615-012-00-7	01-2119980050-47 4-isocyanatosulphonyltoluene Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Resp. Sens. 1 H334 / Skin Sens. 1 H317 / STOT SE 3 H335 / EUH014 Specific concentration limit (SCL): Eye Irrit. 2 H319 >= 5 / STOT SE 3 H335 >= 5 / Skin Irrit. 2 H315 >= 5	0.5 - 1
212-485-8 822-06-0 615-011-00-1	01-2119457571-37 hexamethylene-di-isocyanate Acute Tox. 3 H331 / Eye Irrit. 2 H319 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Resp. Sens. 1 H334 / Skin Sens. 1 H317 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	0.05 - 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

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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)

#### 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). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. 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.

#### Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

### 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. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °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.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values:

not applicable

#### DNEL:

hexamethylene-di-isocyanate

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

DNEL acute inhalative (local), Workers: 0,07 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 0,035 mg/m<sup>3</sup>

### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

#### Personal protection equipment

##### Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

##### Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

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

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

##### 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:

refer to label

Odour:

characteristic

Odour threshold:

not applicable

Melting point/freezing point:

not applicable

Initial boiling point and boiling range:

175 °C

Source: dipropylene-glycol-dimethyl-ether

Flammability:

Combustible liquid.

Lower and upper explosion limit:

Lower explosion limit:

0.7 Vol-%

Upper explosion limit:

5.5 Vol-%

Source: dipropylene-glycol-dimethyl-ether

Flash point:

65 °C

Method: DIN 53213

Auto-ignition temperature:

165 °C

Source: dipropylene-glycol-dimethyl-ether

Decomposition temperature:

not applicable

pH at 20 °C:

not applicable

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<b>Cinematic viscosity (40°C):</b>	<b>&gt; 700 mm<sup>2</sup>/s</b>
<b>Viscosity at 20 °C:</b>	<b>60 s 6 mm</b> Method: DIN 53211
<b>Solubility(ies):</b>	
<b>Water solubility at 20 °C:</b>	<b>partially soluble</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Vapour pressure at 20 °C:</b>	<b>0.7 mbar</b> Source: dipropylene-glycol-dimethyl-ether
<b>Density and/or relative density:</b>	
<b>Density at 20 °C:</b>	<b>1.08 g/cm<sup>3</sup></b>
<b>Relative vapour density:</b>	<b>not applicable</b>
<b>particle characteristics:</b>	<b>not applicable</b>
<b>9.2. Other information</b>	
<b>Solid content:</b>	<b>75 weight-%</b>
<b>solvent content:</b>	
<b>Organic solvents:</b>	<b>25 weight-%</b>
<b>Water:</b>	<b>0 weight-%</b>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 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.

### 10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

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: 746 mg/kg

Method: OECD 401

dermal, LD50, Rat: > 7000 mg/kg

Method: OECD 402

dermal, LD50, Rabbit: 570 mg/kg

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

Method: OECD 403

inhalative (vapours), LC50, Mouse: 1,57 mg/L

Aliphatic polyisocyanate

oral, LD50, Rat: > 2000 mg/kg

inhalative (vapours), LC50, Rat: 0,5 mg/L (4 h)

inhalative (vapours), LC0, Rat: 0,39 mg/L (4 h)

#### Skin corrosion/irritation; Serious eye damage/eye irritation

hexamethylene-di-isocyanate

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Skin (4 h)  
Method: OECD 404  
Corrosive  
eyes  
Method: OECD 405  
Causes serious eye irritation.; Causes serious eye damage.

Aliphatic polyisocyanate  
Skin (4 h)  
No data available  
eyes  
No data available

### Respiratory or skin sensitisation

May cause an allergic skin reaction.

hexamethylene-di-isocyanate  
Skin, Guinea pig: ; Evaluation positive  
Method: OECD 406  
Respiratory system, Guinea pig: ; Evaluation positive  
Method: OECD 406

Aliphatic polyisocyanate  
Skin:  
No data available  
Respiratory system:  
No data available

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

hexamethylene-di-isocyanate  
Germ cell mutagenicity  
Mutagenicity (mammalian cell test): chromosome aberration. Ovarian cells of Chinese hamster Result: negative  
Carcinogenicity  
Showed no carcinogenic effect in animal experiments.  
Reproductive toxicity  
No effect on fertility in animal studies.  
Genotoxicity in vivo; Evaluation negative  
Method: OECD 474  
Mouse; Inhalation; bone marrow  
Genotoxicity in vitro; Evaluation negative  
Method: Ames test  
Salmonella typhimurium  
teratogenicity  
Did not show any fruit-damaging effect in animal experiments.

Aliphatic polyisocyanate  
Germ cell mutagenicity  
No data available  
Carcinogenicity  
No data available  
Reproductive toxicity  
No data available

### STOT-single exposure; STOT-repeated exposure

May cause respiratory irritation.

hexamethylene-di-isocyanate  
Specific target organ toxicity (single exposure)  
May cause respiratory irritation.; Target organs: Respiratory system  
Specific target organ toxicity (repeated exposure)  
No data available

### Aspiration hazard

Aliphatic polyisocyanate  
Aspiration hazard  
No data available

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## Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

## 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.

### 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): 22 mg/L (96 h)

Algae toxicity, ErC50, Desmodesmus subspicatus: > 77,4 mg/L (72 h)

Method: OECD 201

accompanying analysis: yes

growth inhibition, NOEC, Desmodesmus subspicatus: 11,7 mg/L (72 h)

Method: OECD 201

accompanying analysis: yes

Bacteria toxicity, EC0, Pseudomonas putida: 100 mg/L (24 h)

(IUCLID)

respiratory inhibition, EC50, Activated sludge: 842 mg/L (3 h)

Method: OECD 209

Aliphatic polyisocyanate

Fish toxicity, LC50, Danio rerio (zebrafish): 28,3 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: > 100 mg/L (48 h)

Algae toxicity, ErC50, Scenedesmus subspicatus: > 100 mg/L (72 h)

Toxicity of Microorganisms, EC50, Mysisidopsis bahia: > 10000 mg/L (3 h)

#### Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

hexamethylene-di-isocyanate

Biodegradation: < 0,0001 percent (28 d); Evaluation Poorly eliminated from water.

Method: OECD 302C

Aliphatic polyisocyanate

Biodegradation:

No data available

### 12.3. Bioaccumulative potential

Aliphatic polyisocyanate

Distribution coefficient n-octanol/water (log KOW):

No data available

### 12.4. Mobility in soil

Aliphatic polyisocyanate

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. Endocrine disrupting properties

No information available.

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- 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. 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. Dispose of waste according to applicable legislation.

#### 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).

#### 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): 267

#### National regulations

#### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.



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## 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.
223-810-8 4083-64-1	4-isocyanatosulphonyltoluene	01-2119980050-47
212-485-8 822-06-0	hexamethylene-di-isocyanate	01-2119457571-37

## 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.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Resp. Sens. 1 / H334	Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Acute Tox. 3 / H331	Acute toxicity (inhalative)	Toxic 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.
Aquatic Chronic 3	Hazardous to the aquatic environment	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

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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.