

PIPE SEALANT

Creation date	09. July 2012	Version	2.1
Revision date	22. March 2018		

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

Substance / mixture	PIPE SEALANT mixture
Number	1 35125

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

mixture's intended use	Barrier (Sealant).
Disapproved uses of mixture	For professional use only.

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

Name or trade name	RETECH, s.r.o.
Address	Vackova 1541/4, Praha 5 - Stodůlky, 155 00 Czech Republic
Identification number (ID)	25018205
Phone	+420327596428
E-mail	info@retech.cz
Web address	www.retech.com

Competent person responsible for the safety data sheet

Name	RETECH, s.r.o.
E-mail	info@retech.cz

1.4. Emergency telephone number

RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)
Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

SECTION 2: Hazards identification**2.1. Substance or mixture classification****Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Skin Irrit. 2, H315
Skin Sens. 1, H317
Eye Irrit. 2, H319

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

2.2. Label elements**Hazard pictogram****Signal word**

Warning

Hazardous substances

[2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate
2-hydroxyethyl methacrylate
2'-phenylacetohydrazide
maleic acid

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Hazard statements

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.

Precautionary statements

- P102 Keep out of reach of children.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P501 Dispose of contents/container to in accordance with national regulations.

Supplemental information

2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
CAS: 20882-04-6 EC: 244-096-4	[2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	5-10	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H335	
CAS: 868-77-9 EC: 212-782-2	2-hydroxyethyl methacrylate	5-10	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319	
CAS: 7631-86-9 EC: 231-545-4	silica, amorphous	1-5		
CAS: 107-21-1 EC: 203-473-3	ethanediol	1-5	Acute Tox. 4, H302	1
CAS: 80-15-9 EC: 201-254-7	cumene hydroperoxide	<1	Org. Perox. EF, H242 Acute Tox. 4, H302+H312 Skin Corr. 1B, H314 Acute Tox. 3, H331 STOT RE 2, H373 Aquatic Chronic 2, H411 Specific concentration limit: Skin Irrit. 2, H315: 3 % ≤ C < 10 % Eye Irrit. 2, H319: 1 % ≤ C < 3 % STOT SE 3, H335: 0 % ≤ C < 10 % Eye Dam. 1, H318: 3 % ≤ C < 10 % Skin Corr. 1B, H314: C ≥ 10 %	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
CAS: 114-83-0 EC: 204-055-3	2'-phenylacetohydrazide	<1	Acute Tox. 3, H301 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H335	
CAS: 110-16-7 EC: 203-742-5	maleic acid	<1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H335 Specific concentration limit: Skin Sens. 1, H317: C ≥ 0,1 %	

Notes

- 1 Substance for which exposure limits of Community for working environment exist.
Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

Inhalation

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety. In the event of issues, find medical advice.

Skin contact

Remove contaminated clothes. Immediately wash with water and soap and rinse thoroughly.

Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Provide medical treatment.

Ingestion

Rinse out the mouth with clean water. Provide medical treatment.

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

Inhalation

There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Skin contact

There may be irritation and redness.

Eye contact

There may be irritation and redness. The eyes may water profusely.

Ingestion

There may be soreness and redness of the mouth and throat.

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

Ensure eye bath is to hand.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media

not available

5.2. Special hazards arising from the substance or mixture

In the event of fire toxic gases may arise.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Keep unprotected persons away. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Do not allow product to reach sewage system or any water course.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Ensure good ventilation/exhaustion at the workplace. Avoid the formation or spread of mists in the air. Do not handle in a confined space.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in a cool, dry place intended for this purpose. Keep only in original container.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Substance name (component)	Type	Time of exposure	Value	Note	Source
ethanediol (CAS: 107-21-1)	OEL	8 hours	52 mg/m ³		EU limits
	OEL	8 hours	20 ppm		
	OEL	Short-term	104 mg/m ³		
	OEL	Short-term	40 ppm		

United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
silica, amorphous (CAS: 7631-86-9)	WEL	8 hours	6 mg/m ³	Inhalable dust	GBR

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United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
silica, amorphous (CAS: 7631-86-9)	WEL	8 hours	2,4 mg/m ³	Respirable dust	GBR
ethanediol (CAS: 107-21-1)	WEL	8 hours	10 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Particulates only	GBR
	WEL	8 hours	20 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Vapour	
	WEL	8 hours	52 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Vapour	
	WEL	15 minutes	104 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Vapour	
	WEL	15 minutes	40 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Vapour	

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. Ensure eye bath is to hand.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. Other protection: protective workwear.

Respiratory protection

Self-contained breathing apparatus must be available in case of emergency.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

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

Appearance	paste
Physical state	no data available at 20°C
color	yellow
Odour	characteristic
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	>200 °C
Flash point	>100 °C
Evaporation rate	non-applicable
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	data not available
Vapour pressure	data not available
Vapour density	data not available
Relative density	1.009
Solubility(ies)	
solubility in water	insoluble
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	Viskózní
Explosive properties	data not available
Oxidising properties	data not available
data not available	

9.2. Other information

Density	data not available
ignition temperature	data not available
Max. VOC content in the product in its ready to use condition	34.32 g/l

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

The product is stable under normal conditions.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

When used in the standard way, there is not any dangerous reaction with other substances.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Protect against strong acids and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. In the event of fire toxic gases may arise.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

No toxicological data is available for the mixture.

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Acute toxicity

Based on available data the classification criteria are not met.

2-hydroxyethyl methacrylate

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	>5000 mg/kg		Rat	
Dermal	LD ₅₀	>3000 mg/kg		Rabbit	

2'-phenylacetohydrazide

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	270 mg/kg		Rat	

cumene hydroperoxide

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LDL 0	5 mg/kg		Mouse	
Oral	LD ₅₀	382 mg/kg		Rat	
Dermal	LD ₅₀	382 mg/kg		Rat	

ethanediol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	4700 mg/kg		Rat	
Dermal	LD ₅₀	10626 mg/kg		Rabbit	
Inhalation (vapor)	LC ₅₀	>2.5 mg/l	6 hour	Rat	

maleic acid

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	708 mg/kg		Rat	
Dermal	LD ₅₀	1560 mg/kg		Rabbit	
Inhalation (vapor)	LC ₅₀	>720 mg/m ³	1 hour	Rabbit	

silica, amorphous

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	>1000 mg/kg		Rat	
Dermal	LD ₅₀	>2000 mg/kg		Rat	

Skin corrosion/irritation

Causes skin irritation.

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Route of exposure	Result	Time of exposure	Species	Determining method
Dermal	Irritating			Calculation of value

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Serious eye damage/irritation

Causes serious eye irritation.

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Route of exposure	Result	Time of exposure	Species	Determining method
Eye	Irritating			Calculation of value

Respiratory or skin sensitisation

May cause an allergic skin reaction. Based on available data the classification criteria are not met.

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Route of exposure	Result	Time of exposure	Species	Sex	Determining method
Dermal	Irritating				Calculation of value

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.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Data for the mixture are not available.

2-hydroxyethyl methacrylate

Parameter	Value	Time of exposure	Species	Environment
LC ₅₀	>100 mg/l	96 hour	Fishes (<i>Oryzias latipes</i>)	
EC ₅₀	380 mg/l	48 hour	Invertebrates (<i>Daphnia magna</i>)	
EC ₅₀	836 mg/l	72 hour	Algae (<i>Selenastrum capricornutum</i>)	
EC ₅₀	>3000 mg/l	16 hour	Microorganisms (<i>Pseudomonas fluorescens</i>)	

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ethanediol

Parameter	Value	Time of exposure	Species	Environment
LC ₅₀	10000 mg/l	48 hour	Fishes (Leuciscus idus)	
LC ₅₀	18500 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
LC ₅₀	41000 mg/l	48 hour	Invertebrates (Daphnia magna)	

maleic acid

Parameter	Value	Time of exposure	Species	Environment
LC ₅₀	5 mg/l	96 hour	Fishes (Pimephales promelas)	
EC ₅₀	42.81 mg/l	48 hour	Invertebrates (Daphnia magna)	
EC ₅₀	74.35 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

12.2. Persistence and degradability

The mixture is biodegradable.

12.3. Bioaccumulative potential

No bioaccumulation potential.

12.4. Mobility in soil

The product is soluble and mobile in water and soil.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification.

Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 04 09 waste adhesives and sealants containing organic solvents or other dangerous substances

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

14.1. UN number

Not subject to ADR.

14.2. UN proper shipping name

not available

14.3. Transport hazard class(es)

not available

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14.4. Packing group

not available

14.5. Environmental hazards

not available

14.6. Special precautions for user

Reference in the Sections 4 to 8.

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

not available

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. The Act No. 258/2000 Coll., on Protection of Public Health as amended. Decree No. 361/2007 Coll., determining conditions of occupational health protection as amended. Decree No. 415/2012 Coll., on the permissible level of pollution and its determination and implementation of certain other provisions of the Air Protection Act as amended. The Act No. 185/2001 Coll., on Waste and the Amendment of Some Other Acts as amended. The Act No. 201/2012 Coll., on the Protection of Atmosphere – Clean Air Act as amended. Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended.

15.2. Chemical safety assessment

not available

SECTION 16: Other information**A list of standard risk phrases used in the safety data sheet**

H242	Heating may cause a fire.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H302+H312	Harmful if swallowed or in contact with skin.

Guidelines for safe handling used in the safety data sheet

P102	Keep out of reach of children.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container to in accordance with national regulations.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity

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Aquatic Chronic	Hazardous to the aquatic environment
Eye Irrit.	Eye irritation
Org. Perox.	Organic peroxide
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

2, 3, 8, 11, 12, 15, 16

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.