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			ulation (EU) 2020/878 as	amenueu	
		Aceta	aldehyde		
Creat	ion date	16th September 2016			
Revis	ion date	15th March 2023	Version	6.0	
SECT	ION 1: Identification	of the substance/mixture a	nd of the company/und	ertaking	
1.1.	Product identifier	,	Acetaldehyde	2	
	Substance / mixture		substance		
	Chemical name		acetaldehyde		
	CAS number		75-07-0		
	Index number		605-003-00-6		
	EC (EINECS) number		200-836-8		
	Registration number		01-2119451152-5	-xxxx	
	Other substance name	e			
	Ethanal				
1.2.	Relevant identified	uses of the substance or m	ixture and uses advised	against	
	Substance's intende	ed use			
	Chemical production,	analytical chemistry, laborator	y synthesis, industrial app	lications.	
	Substance uses adv	vised against			
	The product chould pe	ot be used in ways other than	Here a material in Carting 1		
	The product should he	or be used in ways other than	those referred in Section 1		
1.3.		ier of the safety data sheet			
1.3.					
1.3.	Details of the suppl	ier of the safety data sheet			
1.3.	Details of the suppl Supplier	ier of the safety data sheet		NTA s.r.o.	
1.3.	Details of the suppl Supplier Name or trade r	ier of the safety data sheet	Ing. Petr Švec - PE	NTA s.r.o.	
1.3.	Details of the suppl Supplier Name or trade r	ier of the safety data sheet	Ing. Petr Švec - PE Radiová 1122/1, Pi	NTA s.r.o.	
1.3.	Details of the suppl Supplier Name or trade r Address	ier of the safety data sheet	Ing. Petr Švec - PE Radiová 1122/1, Pi Czech Republic	NTA s.r.o.	
1.3.	Details of the suppl Supplier Name or trade of Address Identification nu	ier of the safety data sheet	Ing. Petr Švec - PE Radiová 1122/1, P Czech Republic 02096013	NTA s.r.o. raha 10, 102 00	
1.3.	Details of the suppl Supplier Name or trade of Address Identification no VAT Reg No	ier of the safety data sheet	Ing. Petr Švec - PE Radiová 1122/1, Pr Czech Republic 02096013 CZ02096013	NTA s.r.o. raha 10, 102 00	
1.3.	Details of the suppl Supplier Name or trade of Address Identification no VAT Reg No Phone	ier of the safety data sheet	Ing. Petr Švec - PE Radiová 1122/1, Pr Czech Republic 02096013 CZ02096013 +420 226 060 681	NTA s.r.o. aha 10, 102 00 als.eu	
1.3.	Details of the suppl Supplier Name or trade of Address Identification no VAT Reg No Phone E-mail Web address	ier of the safety data sheet	Ing. Petr Švec - PE Radiová 1122/1, P Czech Republic 02096013 CZ02096013 +420 226 060 681 info@pentachemica www.pentachemica	NTA s.r.o. aha 10, 102 00 als.eu	
1.3.	Details of the suppl Supplier Name or trade of Address Identification no VAT Reg No Phone E-mail Web address	i er of the safety data sheet name umber (CRN)	Ing. Petr Švec - PE Radiová 1122/1, P Czech Republic 02096013 CZ02096013 +420 226 060 681 info@pentachemica www.pentachemica	NTA s.r.o. raha 10, 102 00 als.eu als.eu	
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1.3.	Details of the suppl Supplier Name or trade of Address Identification no VAT Reg No Phone E-mail Web address Competent person of Name	i er of the safety data sheet name umber (CRN) r esponsible for the safety d	Ing. Petr Švec - PE Radiová 1122/1, Pi Czech Republic 02096013 CZ02096013 +420 226 060 681 info@pentachemica www.pentachemica ata sheet Ing. Petr Švec - PE	NTA s.r.o. raha 10, 102 00 als.eu als.eu NTA s.r.o.	

2.1. Classification of the substance or mixture

Classification of the substance in accordance with Regulation (EC) No 1272/2008 The substance is classified as dangerous.

Flam. Liq. 1, H224 Eye Irrit. 2, H319 STOT SE 3, H335 Muta. 2, H341 Carc. 1B, H350 Aquatic Chronic 3, H412

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

Most serious adverse physico-chemical effects

Extremely flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes serious eye irritation. May cause respiratory irritation. Suspected of causing genetic defects. May cause cancer. Harmful to aquatic life with long lasting effects.

penta[°]CHEMICALS UNLIMITED

Safety data sheet

		SAFETY I	DATA SHEET						
	according to Commission Regulation (EU) 2020/878 as amended								
			aldehyde						
	ion date	16th September 2016	-						
Revis	ion date	15th March 2023	Version	6.0					
2.2.	Label elements Hazard pictogram	!							
	Signal word Danger								
	Dangerous substance								
	acetaldehyde (Index: 605-003-00-6; CAS: 75-07-0)								
		Hazard statements							
	H224	Extremely flammab	le liquid and vapour.						
	H319	Causes serious eye	irritation.						
	H335	May cause respirate	ory irritation.						
	H341	Suspected of causir	ig genetic defects.						
	H350	May cause cancer.							
	H412	Harmful to aquatic	life with long lasting effe	cts.					
	Precautionary statements								
	P201	Obtain special instru	uctions before use.						
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.							
	P233	Keep container tigh	tly closed.						
	P280	Wear protective glo	ves.						
	P308+P313	IF exposed or conce	erned: Get medical advic	e/attention.					
	P403+P235		ilated place. Keep cool.						
2.3.	Other hazards								
	The substance does	not have endocrine disrupting	properties in accordance	e with the criteria set out in Commissio					

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not 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

3.1. Substances

Chemical characterization The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
	substance main component acetaldehyde	>99	Flam. Liq. 1, H224 Eye Irrit. 2, H319 STOT SE 3, H335 Muta. 2, H341 Carc. 1B, H350	1

Notes

1 The use of the substance is restricted by Annex XVII of REACH Regulation

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



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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. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water or shower.

If in eyes

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. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with clean water. Provide medical treatment. For persons with no symptoms, call the Toxicological Information Centre to decide about the need of medical treatment; provide information about the substances or composition of the product from the original packaging or the Safety Data Sheet of the product.

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

If inhaled

May cause respiratory irritation.

If on skin

Not expected.

If in eyes

Causes serious eye irritation. **If swallowed** Irritation, nausea.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist. **Unsuitable extinguishing media**

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. The substance is flammable. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. **Environmental precautions**

Prevent contamination of the soil and entering surface or ground water.

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. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

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 formation of gases and vapours in flammable or explosive concentrations. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Obtain special instructions before use. Wash hands and exposed parts of the body thoroughly after handling. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a wellventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

Storage class

3A - Flammable liquids (flash point below 55 °C) The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

8.2. **Exposure controls**

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. Suitable material: butyl rubber. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Contaminated skin should be washed thoroughly. Other protection: protective workwear.



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	a filter against organic vapours or a tances are exceeded or in a poorly ve		apparatus as appropriate	if exposure limit	
Not available.	Not available.				
Environment	al exposure controls				

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	-123 °C
Boiling point or initial boiling point and boiling range	20,4 °C
Flammability	Extremely flammable liquid and vapour.
Lower and upper explosion limit	
bottom	4 %
upper	60 %
Flash point	-39 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
рН	data not available
Kinematic viscosity	data not available
Solubility in water	data not available
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	0,5
Vapour pressure	1006 hPa at 20 °C
Density and/or relative density	
Density	0,78 g/cm ³
Relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available
Other information	
Evaporation rate	data not available

SECTION 10: Stability and reactivity

10.1. Reactivity The substance is extremely flammable. 10.2. Chemical stability The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown. 10.4. Conditions to avoid

9.2.

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.



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SECTION 11: Toxicological information

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

No toxicological data is available for the substance.

Acute toxicity

Based on available data the classification criteria are not met.

acetaldehyde

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD 50		661 mg/kg		Rat	
Inhalation	LC50		24 mg/l	4 hours	Rat	
Dermal	LD50	OECD 404	3 540 mg/kg		Rabbit	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Suspected of causing genetic defects.

Carcinogenicity

May cause cancer.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

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.

11.2. Information on other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Harmful to aquatic life with long lasting effects.

acetaldehyde

Parameter	Method	Value	Exposure time	Species	Environmen t
LC50		31 mg/l	96 hours	Fish (Pimephales promelas)	
	OECD 202	57.4 mg/l	48 hours	Daphnia (Daphnia magna)	
EC₅o	OECD 201	>100 mg/l	24 hours	Algae (Pseudokirchneriella subcapitata)	

12.2. Persistence and degradability



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Biodegradability

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Parameter	Method	Value	Exposure time	Environment	Result	
	OECD 301C	80 %	14 days		Easily biodegradable	
Acetaldehyde						
Parameter	Method	Value	Exposure time	Environment	Result	
					Easily biodegradable	

not available

12.3. Bioaccumulative potential

acetaldehyde

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	OECD 117	0.5				
Not available.						

12.4. Mobility in soil

Not available.

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. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. 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. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number or ID number

UN 1089

- **14.2.** UN proper shipping name ACETALDEHYDE
- 14.3. Transport hazard class(es)
 - 3 Flammable liquids
- 14.4. Packing group
 - I substances presenting high danger
- 14.5. Environmental hazards
- not relevant



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14.6.	Maritime trans not relevant Additional info	e Sections 4 to 8. sport in bulk according to a prmation ntification No. pn code	IMO instruments 33 1089 F1 3 F1 3 3 3 3 3 3 3 3 3 3 3 3 3				
		instructions passenger aging instructions	Forbidden 361				
	-	gency plan)	F-E, S-D 300				

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 (EC) 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 as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).



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Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

Restriction	Conditions of restriction
28	 Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30: 1. Shall not be placed on the market, or used, as substances, as constituents of other substances, or, in mixtures, for supply to the general public when the individual concentration in the substance of
	mixture is equal to or greater than: — either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) N 1272/2008, or,
	- the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008.
	Without prejudice to the implementation of other Community provisions relating to the classification packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly a follows:
	"Restricted to professional users".
	 2. By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) the following fuels and oil products: motor fuels which are covered by Directive 98/70/EC,
	 mineral oil products intended for use as fuel in mobile or fixed combustion plants, fuels sold in closed systems (e.g. liquid gas bottles); (d) artists' paints covered by Regulation (EC) No 1272/2008;
	 (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 1 column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date. (f) devices covered by Regulation (EU) 2017/745.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheetH224Extremely flammable liquid and vapour.H319Causes serious eye irritation.H335May cause respiratory irritation.H341Suspected of causing genetic defects.H350May cause cancer.H412Harmful to aquatic life with long lasting effects.Guidelines for safe handling used in the safety data sheet

Guidelines for safe handling	used in the safety data sheet
P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P403+P235	Store in a well-ventilated place. Keep cool.
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.



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Key to abbrevia	ations and acronyms used in th	e safety data sheet			
ADR			ational carriage of dangerous	s goods by	
	road				
BCF	Bioconcentration F	actor			
CAS	Chemical Abstracts	s Service			
CLP	Regulation (EC) No substance and mix		ation, labelling and packaging) of	
EC		for each substance liste			
EC50			ected 50% of the population		
EINECS	European Inventor	y of Existing Commercia	l Chemical Substances		
EmS	Emergency plan				
EU	European Union				
EuPCS	European Product	Categorisation System			
IATA	International Air T	ransport Association			
IBC	International Code Dangerous Chemic		nd Equipment of Ships Carryi	ng	
ICAO	International Civil	Aviation Organization			
IMDG	International Marit	ime Dangerous Goods			
IMO	International Marit	ime Organization			
INCI	International Nome	enclature of Cosmetic In	gredients		
ISO	International Orga	nization for Standardizat	ion		
IUPAC	International Unior	n of Pure and Applied Ch	emistry		
LC50	Lethal concentration	on of a substance in whic	h it can be expected death o	f 50% of t	
LD50	Lethal dose of a su population	bstance in which it can	be expected death of 50% of	the	
log Kow	Octanol-water part	ition coefficient			
OEL	Occupational Expo	sure Limits			
PBT	Persistent, Bioaccu	imulative and Toxic			
ppm	Parts per million				
REACH	Registration, Evalu	ation, Authorisation and	Restriction of Chemicals		
RID	Agreement on the	transport of dangerous	goods by rail		
UN	Four-figure identifi Model Regulations	cation number of the su	bstance or article taken from	the UN	
UVCB	Substances of unk biological materials	•	sition, complex reaction prod	ucts or	
VOC	Volatile organic co	mpounds			
vPvB	Very Persistent and	d very Bioaccumulative			
Aquatic Chronic		aquatic environment (ch	onic)		
Carc.	Carcinogenicity				
Eye Irrit.	Eye irritation				
Flam. Liq.	Flammable liquid				
Muta.	Germ cell mutager	nicity			
STOT SE	Specific target org	an toxicity - single expo	sure		
Training guidel	ines				

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet



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REGULATION (the manufactur The changes (The version 6.0 More informa	EC) No. 1907/2006 OF THE EUROP EC) No. 1272/2008 OF THE EUROPE rer of the substance / mixture, if avai (which information has been add) replaces the SDS version from 13 Ja tion rocedure - calculation method.	EAN PARLIAMENT AND ilable - information from ed, deleted or modifie	OF THE COUNCIL as amend registration dossiers. ed)	ed. Data from			

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.