

		according to Regulation (E	C) No 1907/2006 (REACH)	as amended	
		Perchl	oric acid 60%		
Creat	on date	23rd February 2023			
Revisi	on date	28th April 2023	Version	2.0	
SECT	ION 1: Identification	of the substance/mixtur	e and of the company/u	ndertaking	
1.1.	Product identifier		Perchloric acid 6	0%	
	Substance / mixture		mixture		
	UFI		6NEX-33CP-K005	5-7XVK	
	Other mixture names	5			
	Perchloric acid				
1.2.	Relevant identified	uses of the substance o	r mixture and uses advise	ed against	
	Mixture's intended	use			
		use analytical chemistry, labora	atory synthesis, industrial a	pplications.	
	Chemical production, Mixture uses advis	analytical chemistry, labor ed against			
	Chemical production, Mixture uses advis	analytical chemistry, labor			
1.3.	Chemical production, <b>Mixture uses advis</b> The product should n	analytical chemistry, labor ed against	en those referred in Sectior		
1.3.	Chemical production, <b>Mixture uses advis</b> The product should n	analytical chemistry, labor ed against ot be used in ways other th	en those referred in Sectior		
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1.3.	Chemical production, Mixture uses advise The product should n Details of the supp Supplier Name or trade	analytical chemistry, labora ed against not be used in ways other th lier of the safety data sh name	en those referred in Sectior <b>eet</b> Ing. Petr Švec - Radiová 1122/1,	n 1. PENTA s.r.o.	
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1.3.	Chemical production, Mixture uses advis The product should n Details of the supp Supplier Name or trade Address Identification n	analytical chemistry, labora ed against not be used in ways other th lier of the safety data sh name	en those referred in Sectior eet Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013	n 1. PENTA s.r.o. Praha 10, 102 00	
1.3.	Chemical production, Mixture uses advis The product should n Details of the supp Supplier Name or trade Address Identification n VAT Reg No	analytical chemistry, labora ed against not be used in ways other th lier of the safety data sh name	en those referred in Sectior eet Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013	n 1. PENTA s.r.o. Praha 10, 102 00 81	
1.3.	Chemical production, Mixture uses advis The product should n Details of the supp Supplier Name or trade Address Identification n VAT Reg No Phone	analytical chemistry, labora ed against not be used in ways other th lier of the safety data sh name	en those referred in Section <b>eet</b> Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 66	n 1. PENTA s.r.o. Praha 10, 102 00 81 Nicals.eu	
1.3.	Chemical production, <b>Mixture uses advis</b> The product should n <b>Details of the supp</b> <b>Supplier</b> Name or trade Address Identification n VAT Reg No Phone E-mail Web address	analytical chemistry, labora ed against not be used in ways other th lier of the safety data sh name	en those referred in Section eet Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 66 info@pentachem www.pentachem	n 1. PENTA s.r.o. Praha 10, 102 00 81 Nicals.eu	
1.3.	Chemical production, <b>Mixture uses advis</b> The product should n <b>Details of the supp</b> <b>Supplier</b> Name or trade Address Identification n VAT Reg No Phone E-mail Web address	analytical chemistry, labor ed against not be used in ways other th lier of the safety data sh name	en those referred in Section eet Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 66 info@pentachem www.pentachem	n 1. PENTA s.r.o. Praha 10, 102 00 81 nicals.eu nicals.eu	
1.3.	Chemical production, Mixture uses advis The product should n Details of the supp Supplier Name or trade Address Identification n VAT Reg No Phone E-mail Web address Competent person	analytical chemistry, labor ed against not be used in ways other th lier of the safety data sh name	en those referred in Section eet Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 66 info@pentachem www.pentachem y data sheet	n 1. PENTA s.r.o. Praha 10, 102 00 81 Nicals.eu Nicals.eu PENTA s.r.o.	

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Ox. Liq. 1, H271 Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT RE 2, H373 (thyroid gland)

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

## Most serious adverse physico-chemical effects

May cause fire or explosion; strong oxidiser. May be corrosive to metals.

Most serious adverse effects on human health and the environment

Causes severe skin burns and eye damage. May cause damage to thyroid gland through prolonged or repeated exposure. Harmful if swallowed. Causes serious eye damage.

# 

# Safety data sheet

		SAFETY	DATA SHEET	
		according to Regulation (EC)	No 1907/2006 (REACH) a	as amended
		Perchlo	ric acid 60%	
	on date	23rd February 2023		
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2.2.	Label elements			
	Hazard pictogram			
		$\simeq$	•	
	Signal word			
	-			
	Danger			
	Hazardous substa	nces		
	perchloric acid %			
	Hazard statements	<b>.</b>		
	H271		explosion; strong oxidiser	
	H290	May be corrosive t		•
	H302	Harmful if swallow		
	H314		n burns and eye damage.	
	H373		, -	prolonged or repeated exposure.
	Precautionary stat	, ,		
	P260	Do not breathe va	pours	
	P280			eye protection/face protection.
	P301+P330+P331		Rinse mouth. Do NOT indu	
	P304+P340			d keep comfortable for breathing.
	P305+P351+P338		-	several minutes. Remove contact
	P302+P351+P356		and easy to do. Continue	
2.3.	Other hazards	······································		- 3
	The mixture does no	ot contain substances with en	docrine disrupting propert	ies in accordance with the criteria set o
				ulation (EU) 2018/605. Mixture does n
				with Annex XIII of Regulation (EC) N
	1007/0000 (05000)			,

SECTION 3: Composition/information on ingredients

1907/2006 (REACH) as amended.

## 3.2. Mixtures

## 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
Index: 017-006-00-4 CAS: 7601-90-3 EC: 231-512-4 Registration number: 01-2120066865-44- xxxx	perchloric acid %	60	Ox. Liq. 1, H271 Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT RE 2, H373 (thyroid gland) Specific concentration limit: Eye Irrit. 2, H319: $1 \% \le C < 10$ % Ox. Liq. 2, H272: $C \le 50 \%$ Skin Irrit. 2, H315: $1 \% \le C < 10$ % Skin Corr. 1A, H314: $C \ge 50 \%$ Skin Corr. 1B, H314: $10 \% \le C < 50 \%$ Ox. Liq. 1, H271: $C > 50 \%$	1



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## Notes

1 Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

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. 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. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

## If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse cautiously with water for several minutes. Rinse skin with water or shower. Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

## 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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

### If swallowed

RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

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

## If inhaled

Inhaling vapours can cause corrosion of the breathing system.

## If on skin

Causes severe skin burns.

## If in eyes

Causes serious eye damage.

#### If swallowed

Corrosion of the digestion system can occur.

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

Symptomatic treatment.



## **SAFETY DATA SHEET**

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## **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. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water. Fight fire remotely due to the risk of explosion. Evacuate area.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. May cause fire or explosion; strong oxidiser. May be corrosive to metals. 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. Absorb spillage to prevent material damage.

## 6.4. Reference to other sections

See the Section 7, 8 and 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Take any precaution to avoid mixing with combustibles. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

## 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. Keep only in original packaging. Store locked up.

8B - Non-combustible corrosive substances

Storage class7.3.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.



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## 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. 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 or face shield (based on the nature of the work performed).

## Skin protection

Hand protection: Protective gloves resistant to the product (butyl rubber, nitrile rubber). When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: Protective work clothing (rubber apron). Contaminated skin should be washed thoroughly. Wear fire resistant or flame retardant clothing.

## **Respiratory protection**

Respirator. Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

## Thermal hazard

## Not available.

## Environmental 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	data not available
Melting point/freezing point	-18 °C
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
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)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1.53 g/cm <sup>3</sup>
Relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available
Other information	
Evaporation rate	data not available
Oxidising properties	May cause fire or explosion; strong oxidiser.

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

9.2.

not available

## 10.2. Chemical stability

The product is stable under normal conditions.



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10.3.	Possibility of hazardous reactions Unknown.
10.4.	<b>Conditions to avoid</b> The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating ar against frost.
10.5.	-
10.6.	Hazardous decomposition products Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed a high temperature and in fire.
SECTI 11.1.	No toxicological data is available for the mixture.
	Acute toxicity Harmful if swallowed.
	Skin corrosion/irritation Causes severe skin burns and eye damage.
	Serious eye damage/irritation Causes severe skin burns and eye damage. Causes serious eye damage.
	<b>Respiratory or skin sensitisation</b> Based on available data the classification criteria are not met.
	Germ cell mutagenicity Based on available data the classification criteria are not met.
	<b>Carcinogenicity</b> Based on available data the classification criteria are not met.
	<b>Reproductive toxicity</b> Based on available data the classification criteria are not met.
	<b>Toxicity for specific target organ - single exposure</b> Based on available data the classification criteria are not met.
	<b>Toxicity for specific target organ - repeated exposure</b> May cause damage to thyroid gland through prolonged or repeated exposure.
	Aspiration hazard Based on available data the classification criteria are not met.
11.2.	<b>Information on other hazards</b> The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.



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SECTI	ON 12: Ecologica	al information			
	Toxicity				
	not available				
12.2.	Persistence and	d degradability			
	not available				
12.3.	Bioaccumulativ	e potential			
	Not available.				
12.4.	Mobility in soil				
	Not available.				
12.5.	<b>Results of PBT</b>	and vPvB assessment			
		t contain any substance meeting No 1907/2006 (REACH) as amendo		vB in accordance with the Annex X	III o
12.6.	Endocrine disru	pting properties			
		s not contain substances with endo elegated Regulation (EU) 2017/21		s in accordance with the criteria set tion (EU) 2018/605.	out
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 1873
- 14.2. UN proper shipping name PERCHLORIC ACID
- 14.3.Transport hazard class(es)5.1Oxidazing substances
- 14.4. Packing group
  - I substances presenting high danger
- 14.5. Environmental hazards not relevant
- **14.6.** Special precautions for user Reference in the Sections 4 to 8.
- 14.7. Maritime transport in bulk according to IMO instruments not relevant



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Additional in	formation			
Hazard id	entification No.	558		
UN numb	er	1873		
Classificat	tion code	OC1		
Safety sig	jns	5.1+8		
		5.1		
Air transport	- ICAO/IATA			
	instructions passenger	Forbidden		
	ckaging instructions	553		
Marine trans	-	54.00		
EmS (em	ergency plan)	F-A, S-Q		

## **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 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).

#### 15.2. Chemical safety assessment

No chemical safety assessment has been performed for this substance.



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No chemical safety assessment has been performed for this substance.



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B				

No chemical safety assessment has been performed for this substance.

## **SECTION 16: Other information**

A list of standard risk phras	es used in the safety data sheet				
H271	May cause fire or explosion; strong oxidiser.				
H272	May intensify fire; oxidiser.				
H290	May be corrosive to metals.				
H302	Harmful if swallowed.				
H314	Causes severe skin burns and eye damage.				
H315	Causes skin irritation.				
H318	Causes serious eye damage.				
H319	Causes serious eye irritation.				
H373	May cause damage to thyroid gland through prolonged or repeated exposure.				
Guidelines for safe handling used in the safety data sheet					
P260	Do not breathe vapours.				
P280	Wear protective gloves/protective clothing/eye protection/face protection.				
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.				
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.				
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
Other important information	n 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 ac	ronyms 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				
EC	Identification code for each substance listed in EINECS				
EINECS	European Inventory of Existing Commercial Chemical Substances				
EmS	Emergency plan				
EU	European Union				
EuPCS	European Product Categorisation System				
IATA	International Air Transport Association				
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals				
ICAO	International Civil Aviation Organization				
IMDG	International Maritime Dangerous Goods				
IMO	International Maritime Organization				
INCI	International Nomenclature of Cosmetic Ingredients				
ISO	International Organization for Standardization				
IUPAC	International Union of Pure and Applied Chemistry				
log Kow	Octanol-water partition coefficient				
OEL	Occupational Exposure Limits				
PBT	Persistent, Bioaccumulative and Toxic				
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				



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UVCB	Substances of unk biological material	•	ition, complex reaction pro	ducts or		
VOC	Volatile organic co	Volatile organic compounds				
vPvB	Very Persistent an	Very Persistent and very Bioaccumulative				
Acute Tox.	Acute toxicity					
Eye Dam.	Serious eye dama	Serious eye damage				
Met. Corr.	Corrosive to metal	Corrosive to metals				
Ox. Liq.	Oxidising liquid	Oxidising liquid				
Skin Corr.	Skin corrosion					
STOT RE	Specific target org	Specific target organ toxicity - repeated exposure				
Training guide	lines					
Inform the perso ways of handling	onnel about the recommended war	ys of use, mandatory pro	tective equipment, first aid	and prohibited		

**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. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

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

The version 2.0 replaces the SDS version from 23 February 2023. Changes were made in sections 2, 15 and 16.

## More information

Classification procedure - calculation method.

#### 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.