

		according to Regulation (EC) I	No 1907/2006 (REACH)	as amended
			lexible USP 32	
Creat	on date	02nd September 2020		
Revis	on date	21st December 2023	Version	5.0
SECT	ON 1: Identification	of the substance/mixture a	und of the company/u	ndertaking
1.1.	Product identifier		Collodion flexible	-
	Substance / mixture		mixture	
	Other mixture names	5		
	Collodion flexib	le USP 32		
1.2.	Relevant identified	uses of the substance or m	ixture and uses advise	ed against
	Mixture's intended	use		
	medicine, pharmacy	Chemical production, analytica	I chemistry, laboratory s	synthesis, industrial applications
Mixture uses advised against				
	Mixture uses advis	ed against		
		ed against ot be used in ways other than	those referred in Sectior	n 1.
1.3.	The product should n	-		n 1.
1.3.	The product should n	ot be used in ways other than	:	
1.3.	The product should n Details of the supp	ot be used in ways other than lier of the safety data sheet		
1.3.	The product should n Details of the supp Supplier	ot be used in ways other than lier of the safety data sheet	: Ing. Petr Švec -	
1.3.	The product should n Details of the supp Supplier Name or trade	ot be used in ways other than lier of the safety data sheet	: Ing. Petr Švec -	PENTA s.r.o.
1.3.	The product should n Details of the supp Supplier Name or trade	ot be used in ways other than lier of the safety data sheet name	: Ing. Petr Švec - Radiová 1122/1,	PENTA s.r.o.
1.3.	The product should n Details of the supp Supplier Name or trade Address	ot be used in ways other than lier of the safety data sheet name	: Ing. Petr Švec - Radiová 1122/1, Czech Republic	PENTA s.r.o.
1.3.	The product should n Details of the supp Supplier Name or trade Address Identification n	ot be used in ways other than lier of the safety data sheet name	: Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013	PENTA s.r.o. Praha 10, 102 00
1.3.	The product should n Details of the supp Supplier Name or trade Address Identification n VAT Reg No	ot be used in ways other than lier of the safety data sheet name	: Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013	PENTA s.r.o. Praha 10, 102 00 81
1.3.	The product should n Details of the supp Supplier Name or trade Address Identification n VAT Reg No Phone	ot be used in ways other than lier of the safety data sheet name	: Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 6	PENTA s.r.o. Praha 10, 102 00 81 hicals.eu
1.3.	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	ot be used in ways other than lier of the safety data sheet name	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 6 info@pentachem www.pentachem	PENTA s.r.o. Praha 10, 102 00 81 nicals.eu nicals.eu
1.3.	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 Name	ot be used in ways other than lier of the safety data sheet name umber (CRN)	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 6 info@pentachem www.pentachem lata sheet Penta s.r.o Ing	PENTA s.r.o. , Praha 10, 102 00 81 nicals.eu nicals.eu g. Doudová Jolana
1.3.	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 Name E-mail	ot be used in ways other than lier of the safety data sheet name umber (CRN) responsible for the safety d	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 6 info@pentachem www.pentachem	PENTA s.r.o. , Praha 10, 102 00 81 nicals.eu nicals.eu g. Doudová Jolana
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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.

Flam. Liq. 1, H224
Acute Tox. 4, H302
Eye Irrit. 2, H319
STOT SE 3, H336
Most serious adverse physico-chemical effects
Extremely flammable liquid and vapour.
Most serious adverse effects on human health and the environment
May cause drowsiness or dizziness. Harmful if swallowed. Causes serious eye irritation.

2.2. Label elements

Hazard pictogram



Signal word Danger Hazardous substances diethyl ether Camphor



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Hazard statements			
H224	Extremely flammab	le liquid and vapour.	
H302	Harmful if swallowe	ed.	
H319	Causes serious eye	irritation.	
H336	May cause drowsing	ess or dizziness.	
Precautionary state	ements		
P210	Keep away from he No smoking.	at, hot surfaces, sparks,	open flames and other ignition sources.
P243	Take action to prev	ent static discharges.	
P403+P235	Store in a well-vent	ilated place. Keep cool.	
Supplemental infor EUH019	mation May form explosive	peroxides.	

2.3. Other hazards

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. 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

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: 603-022-00-4 CAS: 60-29-7 EC: 200-467-2 Registration number: 01-2119535785-29- 0001	diethyl ether	65	Flam. Liq. 1, H224 Acute Tox. 4, H302 STOT SE 3, H336 EUH019	1
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457-610-43- xxxx	ethanol	<24	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: $C \ge 50 \%$	
CAS: 76-22-2 EC: 244-350-4	Camphor	<2	Flam. Sol. 2, H228 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	

Notes

1 A substance for which exposure limits are set.

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.



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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

Provide medical treatment.

Most important symptoms and effects, both acute and delayed

If inhaled

4.2.

May cause drowsiness or dizziness.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Extremely flammable liquid and vapour. 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.



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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 and concentrations exceeding the occupational exposure limits. 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. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a wellventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health Ground bond protection. container and and receivina equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges.

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.

max.15 °C

Storage temperature

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

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

European Union

European Union	Commission	Commission Directive 2000/39/EC		
Substance name (component)	Туре	Value		
	OEL 8 hours	308 mg/m ³		
diathyl athor (CAS, 60, 20, 7)	OEL 8 hours	100 ppm		
diethyl ether (CAS: 60-29-7)	OEL 15 minutes	616 mg/m ³		
	OEL 15 minutes	200 ppm		

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 (Viton). Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

Respiratory protection

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.



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SECT	ION 9. Physical a	nd chemical properties				
).1.	-	basic physical and chemical prope	rties			
	Physical state		liquid			
	Colour		colourless			
	Odour		characteristic			
	Melting point/fre	ezing point	data not available			
	••••	nitial boiling point and boiling range	34 °C			
	Flammability		data not available			
	Lower and upper	explosion limit	data not available			
	Flash point		-40 °C			
	Auto-ignition ten	nperature	data not available			
	Decomposition te	emperature	data not available			
	рН		data not available			
	Kinematic viscos	ity	data not available			
	Solubility in wate	er	data not available			
	Partition coefficie	ent n-octanol/water (log value)	data not available			
	Vapour pressure		data not available			
	Density and/or re	elative density				
	Density		0.777 g/cm ³ at 20 °C			
	Relative vapour o	density	data not available			
	Particle characte		data not available			
.2.	Other informat	ion				
	not available					

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions Unknown.

10.4. Conditions to avoid

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.

SECTION 11: Toxicological information

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.



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Acute toxicity

Harmful if swallowed.

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Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination		
Oral	ATE	1734 mg/kg				Calculation of value		
Camphor								
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination		
Oral	LD50	>5000 mg/kg		Rat				
diethyl ether	diethyl ether							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination		
Oral	LD₅o	1211 mg/kg		Rat (Rattus norvegicus)				
Dermal	LD50	>2000 mg/kg		Rabbit				
Inhalation (vapor)	LC50	31000 ppm	30 minutes	Mouse				
ethanol								
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination		
Oral	LD50	13300 mg/kg		Rat (Rattus norvegicus)				
Dermal	LD50	>15800 mg/kg		Rabbit				

Skin corrosion/irritation

LC 50

Inhalation (vapor)

Based on available data the classification criteria are not met.

124.7 mg/l

Corrosivity

ethanol				
Route of exposure	Result	Exposure time	Species	
	No effect		Rabbit	

4 hours

Rat (Rattus norvegicus)

Serious eye damage/irritation

Causes serious eye irritation.

ethanol				
Route of exposure	Result	Exposure time	Species	
	Irritating		Rabbit	



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Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

ethanol					
	Route of exposure	Result	Exposure time	Species	Sex
		Indeterminate		Human	

Germ cell mutagenicity

Based on available data the classification criteria are not met.

ethanol				
Result	Exposure time	Specific target organ	Species	Sex
Indeterminate				

Carcinogenicity

Based on available data the classification criteria are not met.

ethanol					
Route of exposure	Parameter	Value	Result	Species	Sex
Oral			Indeterminate	Rat (Rattus norvegicus)	

Reproductive toxicity

Based on available data the classification criteria are not met.

ethanol						
Effect	Parameter	Value	Exposure time	Result	Species	Sex
Developmental toxicity	NOAEL	38 mg/l		Negative	Rat (Rattus norvegicus)	
	NOAEL	5200 mg/kg	24 hours	Indeterminate	Rat (Rattus norvegicus)	

Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness.

ethanol							
Route of exposure	Parameter	Value	Exposure time	Specific target organ	Result	Species	Sex
Inhalation	LOAEL	2.6 mg/l	30 minutes		Drowsiness, Dizziness	Human	
Inhalation	LOAEL	9.4 mg/l		Lungs	Indeterminate	Human	

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.



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11.2. Information on other hazards

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.

SECTION 12: Ecological information

12.1. Toxicity

not available

Acute toxicity

diethyl ether

Parameter Value LC₅o 2560 n		Exposure time 96 hours	Species Fish	Environment	Value determination
	mg/l	96 hours	Fish		
FC 1(F m)			11511		
EC₅o 165 mg	ıg/l	24 hours	Daphnia (Daphnia magna)		
IC50 >100 r	mg/l	72 hours	Algae		

ethanoi					
Parameter V	/alue	Exposure time	Species	Environment	Value determination
EC50 42	l2 mg/l	96 hours	Fish		Experimentally
EC50 50	5012 mg/l	48 hours	Daphnia		Experimentally
NOEC <	<500 mg/l	96 hours	Algae		Experimentally

Chronic toxicity

diethyl ether				
Parameter	Value	Exposure time	Species	Environment
	>100 mg/l	21 days	Daphnia (Daphnia magna)	

12.2. Persistence and degradability

not available

- 12.3. Bioaccumulative potential
 - 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
 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.

12.7. Other adverse effects Not available.

SECTION 13: Disposal considerations



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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 1263 14.2. UN proper shipping name PAINT Transport hazard class(es) 14.3. 3 Flammable liquids 14.4. Packing group 14.5. Environmental hazards not relevant 14.6. Special precautions for user not available 14.7. Maritime transport in bulk according to IMO instruments not relevant Additional information Hazard identification No. **UN** number Classification code Safety signs Tunnel restriction code Air transport - ICAO/IATA Packaging instructions passenger Cargo packaging instructions Marine transport - IMDG

EmS (emergency plan)

MFAG

33	
1263	
F1	
3	
3	
(D/E)	
351 361	

F-E, S-E

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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

A chemical safety assessment has not been carried out.

SECTION 16: Other information

A list of standard risk phrase	es used in the safety data sheet
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
Guidelines for safe handling	used in the safety data sheet
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take action to prevent static discharges.
P403+P235	Store in a well-ventilated place. Keep cool.
A list of additional standard	phrases used in the safety data sheet
EUH019	May form explosive peroxides.
Other important information	about human health protection
	ess specifically approved by the manufacturer/importer - used for purposes other than 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
EC₅o	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
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC50	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization

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INCI	International Nomen	clature of Cosmetic In	aredients
ISO	International Organization for Standardization		
IUPAC	International Union of Pure and Applied Chemistry		
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population		
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population		
LOAEL	Lowest observed adverse effect level		
log Kow	Octanol-water partition coefficient		
NOAEL	No observed adverse effect level		
NOEC	No observed effect concentration		
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		
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		
Eye Irrit.	Eye irritation		
Flam. Liq.	Flammable liquid		
Flam. Sol.	Flammable solid		
Skin Irrit.	Skin irritation		
STOT SE	Specific target orgar	n toxicity - single expos	sure
Training guideli	nes		

i raining 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. 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 5.0 replaces the SDS version from 29 June 2023. Changes were made in sections 1, 2, 13 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.