

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

# **Haematoxylin Harris**

Creation date 29th July 2020

Revision date 27th November 2023 Version 4.0

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

**Product identifier** Haematoxylin Harris

Substance / mixture mixture

UFT JCN9-W10X-X009-F1YE

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

### Mixture's intended use

Chemical production, analytical chemistry, laboratory synthesis, industrial applications.

### Mixture uses advised against

The product should not be used in ways other then those referred in Section 1.

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

### Supplier

Name or trade name Ing. Petr Švec - PENTA s.r.o. Address

Radiová 1122/1, Praha 10, 102 00

Czech Republic

Identification number (CRN) 02096013 CZ02096013 VAT Reg No Phone +420 226 060 681 E-mail info@pentachemicals.eu Web address www.pentachemicals.eu

### Competent person responsible for the safety data sheet

Ing. Petr Švec - PENTA s.r.o. Name E-mail info@pentachemicals.eu

#### 1.4. **Emergency telephone number**

European emergency number: 112 112

# **SECTION 2: Hazards identification**

### Classification of the substance or mixture

# Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Acute Tox. 4, H312 STOT RE 2, H373 (kidneys) Aquatic Chronic 3, H412

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

# Most serious adverse effects on human health and the environment

May cause damage to the kidneys through prolonged or repeated exposure. Harmful in contact with skin. Harmful to aquatic life with long lasting effects.

#### 2.2. **Label elements**

### Hazard pictogram





### Signal word

Warning

### **Hazard statements**

H312 Harmful in contact with skin.



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

# **Haematoxylin Harris**

Creation date 29th July 2020

Revision date 27th November 2023 Version 4.0

H373 May cause damage to the kidneys through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

P260 Do not breathe vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing.

#### 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

In the working  Identification numbers	Substance name	Content in	Classification according to	Note
Identification numbers	Substance name	% weight	Regulation (EC) No 1272/2008	Note
Index: 607-002-00-6 CAS: 64-19-7 EC: 200-580-7 Registration number: 01-2119475328-30- xxxx	acetic acid %	2-5	Flam. Liq. 3, H226 Skin Corr. 1A, H314 Eye Dam. 1, H318 Specific concentration limit: Skin Corr. 1A, H314: $C \ge 90 \%$ Skin Irrit. 2, H315: $10 \% \le C <$ 25 % Skin Corr. 1B, H314: 25 % ≤ $C <$ 90 % Eye Irrit. 2, H319: $10 \% \le C <$ 25 %	2, 4
CAS: 517-28-2 EC: 208-237-3	Haematoxylin	0,5-1	Eye Irrit. 2, H319	
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457-610-43- xxxx	ethanol	0,5-1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 50 %	
Index: 080-002-00-6 CAS: 21908-53-2 EC: 244-654-7	Mercury(II) oxide yellow	0,25-0,5	Acute Tox. 2, H300+H330 Acute Tox. 1, H310 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Specific concentration limit: STOT RE 2, H373 (kidneys): C ≥ 0.1 %	1, 3, 4, 5

### Notes

Note A: Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4.



SAFETY DATA SHEET					
according to Regulation (EC) No 1907/2006 (REACH) as amended					
Haematoxylin Harris					
Creation date	29th July 2020				
Revision date	27th November 2023	Version	4.0		

- 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.
- 3 Note 1: The concentration stated or, in the absence of such concentrations, the generic concentrations set out in this Regulation are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture.
- 4 A substance for which exposure limits are set.
- 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.

# **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.

### 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.

### If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment.

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

### If inhaled

Not expected.

### If on skin

not available

### If in eyes

Not expected.

### 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.



SAFETY DATA SHEET				
according to Regulation (EC) No 1907/2006 (REACH) as amended				
Haematoxylin Harris				
Creation date Revision date	29th July 2020 27th November 2023	Version	4.0	

### 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.

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

# 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. 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 concentrations exceeding the occupational exposure limits. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. 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. Recommended storage temperature  $15-25^{\circ}$ C.

### 7.3. Specific end use(s)

In histology for staining cell nuclei.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

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

# **European Union**

# Commission Directive (EU) 2017/164

		<u> </u>
Substance name (component)	Туре	Value
	OEL 8 hours	25 mg/m <sup>3</sup>
poetic poid 0/ (CAS, 64, 10, 7)	OEL 8 hours	10 ppm
acetic acid % (CAS: 64-19-7)	OEL 15 minutes	50 mg/m <sup>3</sup>
	OEL 15 minutes	20 ppm

# **European Union**

# Commission Directive 2009/161/EU

Substance name (component)	Туре	Value
Mercury(II) oxide yellow (CAS: 21908-53-2)	OEL 8 hours	0,02 mg/m <sup>3</sup>



# **SAFETY DATA SHEET**

according to Regulation (EC) No 1907/2006 (REACH) as amended

# **Haematoxylin Harris**

Creation date 29th July 2020

Revision date 27th November 2023 Version 4.0

### 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 (nitrile rubber). When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Contaminated skin should be washed thoroughly.

### 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 Colour red, violet Odour data not available Melting point/freezing point data not available 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 data not available Auto-ignition temperature data not available Decomposition temperature data not available pН data not available Kinematic viscosity Solubility in water soluble data not available Partition coefficient n-octanol/water (log value) Vapour pressure data not available Density and/or relative density data not available Relative vapour density data not available Particle characteristics data not available

### 9.2. Other information

not available

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

# 10.1. Reactivity

not available

# 10.2. Chemical stability

The product is stable under normal conditions.

# 10.3. Possibility of hazardous reactions

Unknown.



# SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended Haematoxylin Harris Creation date 29th July 2020 Revision date 27th November 2023 Version 4.0

### 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.

### **Acute toxicity**

Harmful in contact with skin.

acetic acid %						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>		3310 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD <sub>50</sub>		1060 mg/kg		Rabbit	

ethanol						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50		13300 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD <sub>50</sub>		>15800 mg/kg		Rabbit	
Inhalation (vapor)	LC50		124.7 mg/l	4 hours	Rat (Rattus norvegicus)	

Haematoxylin						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	OECD 423	>2000 mg/kg		Rat (Rattus norvegicus)	

Mercury(II) oxide yellow						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50		18 mg/kg		Rat	

### Skin corrosion/irritation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.



	SAFETY I	DATA SHEET			
according to Regulation (EC) No 1907/2006 (REACH) as amended					
Haematoxylin Harris					
Creation date Revision date	29th July 2020 27th November 2023	Version	4.0		

### Corrosivity

ethanol				
Route of exposure	Result	Exposure time	Species	
	No effect		Rabbit	

# Serious eye damage/irritation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

ethanol				
Route of exposure	Result	Exposure time	Species	
	Irritating		Rabbit	

### Respiratory or skin sensitisation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

ethanol							
Route of exposure	Result	Exposure time	Species	Sex			
	Indeterminate		Human				

# Germ cell mutagenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

ethanol							
Result	Exposure time	Specific target organ	Species	Sex			
Indeterminate							

# Carcinogenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

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

# Reproductive toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture 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)			



Revision date

# Safety data sheet

4.0

# SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended Haematoxylin Harris Creation date 29th July 2020

### Toxicity for specific target organ - single exposure

27th November 2023

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Version

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

### Toxicity for specific target organ - repeated exposure

May cause damage to the kidneys through prolonged or repeated exposure. Data for the components of the mixture are not available.

### **Aspiration hazard**

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

#### 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

Harmful to aquatic life with long lasting effects.

# **Acute toxicity**

acetic acid %								
Parameter	Value	Exposure time	Species	Environment	Value determination			
LC50	75 mg/l	96 hours	Fish (Lepomis macrochirus)					
EC50	47 mg/l	24 hours	Daphnia (Daphnia magna)					

ethanol							
Parameter	Value	Exposure time	Species	Environment	Value determination		
EC50	42 mg/l	96 hours	Fish		Experimentally		
EC50	5012 mg/l	48 hours	Daphnia		Experimentally		
NOEC	<500 mg/l	96 hours	Algae		Experimentally		

Mercury(II) oxide yellow							
Parameter	Value	Exposure time	Species	Environment	Value determination		
LC50	0.19 mg/l	96 hours	Fish				

### 12.2. Persistence and degradability

No data are available for either the mixture or the components.

### 12.3. Bioaccumulative potential

No data are available for either the mixture or the components.



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

# **Haematoxylin Harris**

Creation date 29th July 2020

Revision date 27th November 2023 Version 4.0

### 12.4. Mobility in soil

No data are available for either the mixture or the components.

### 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**

### 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

not subject to transport regulations

### 14.2. UN proper shipping name

not relevant

# 14.3. Transport hazard class(es)

not relevant

# 14.4. Packing group

not relevant

# 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

### **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).



4.0

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

# **Haematoxylin Harris**

Creation date 29th July 2020 Revision date 27th November 2023 Version

#### 15.2. **Chemical safety assessment**

A chemical safety assessment has not been carried out (mixture).

### **SECTION 16: Other information**

### A list of standard risk phrases used in the safety data sheet

Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H310 Fatal in contact with skin. H312 Harmful in contact with skin.

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 organs through prolonged or repeated exposure. May cause damage to the kidneys through prolonged or repeated exposure. H373

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

H300+H330 Fatal if swallowed or if inhaled.

Guidelines for safe handling used in the safety data sheet P260 Do not breathe vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing.

# 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

European agreement concerning the international carriage of dangerous goods by ADR

**BCF Bioconcentration Factor** CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substance and mixtures

FC Identification code for each substance listed in EINECS

Concentration of a substance when it is affected 50% of the population EC50 **EINECS** European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan EU European Union

**EuPCS** European Product Categorisation System IATA International Air Transport Association

International Code For The Construction And Equipment of Ships Carrying TBC

**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

LC<sub>50</sub> Lethal concentration of a substance in which it can be expected death of 50% of the

population

I D 50 Lethal dose of a substance in which it can be expected death of 50% of the

population



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

# **Haematoxylin Harris**

Creation date 29th July 2020

Revision date 27th November 2023 Version 4.0

LOAEL Lowest observed adverse effect level Octanol-water partition coefficient log Kow NOAEL No observed adverse effect level NOFC No observed effect concentration OFL 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

Aquatic Acute Hazardous to the aquatic environment

Aquatic Chronic Hazardous to the aquatic environment (chronic)

Serious eye damage Eve Dam. Flam. Lig. Flammable liquid Skin Corr. Skin corrosion

STOT RE Specific target organ toxicity - repeated 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. 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 4.0 replaces the SDS version from 12 June 2023. Changes were made in sections 2 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.