

According to directive 1907/2006/EC, 2020/878
Version 5.0 Revision date: 18-09-2024
Trade name: Iron (II) sulphate heptahydrate ≥99.5%, Ph.Eur., USP

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

1.1 Product identification:

Product name/name:	Iron (II) sulphate heptahydrate ≥99.5%, Ph.Eur., USP
Registration number (REACH):	01-2119513203-57-xxxx
Cataloguing number in Annex VI to CLP:	026-003-01-4
EC no:	231-753-5
CAS no:	7782-63-0

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

Identified uses:	Laboratory chemicals. Analytical and laboratory applications.
Uses advised against:	Not to be used for private purposes (household). Food, drinks and animal feed.

1.3 Details of the supplier of the safety data sheet:

Responsible distributor :	ASSYST bvba / A.S.O.W. bvba Hellegatstraat 13a 2590 Berlaar Belgium Tel: +32 495 50 61 14 / +32 496 83 70 27 Website: www.assyst.org / www.artsuppliesonweb.com Email: ao@assyst.org / vera.opsommer@assyst.org
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1.4 Emergency phone number:

For Belgium:	Call the Poison Control Centre (070 245 245 - free) , if not available: 02 264 96 30 (normal rate) or your doctor. In life-threatening situations, always call the European emergency number 112 .
NHS 24 Direct	For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. For urgent medical help , use the NHS 111 online service, or call 111 if you are unable to get help online. For life-threatening emergencies, call 999 for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

Classification according to directive (EC) No 1272/2008 and its amendments.

Acute oral toxicity 4 Acute Tox. 4 H302
Skin corrosion/irritation 2 Skin Irrit. 2 H315
Serious eye damage/eye irritation 2 Eye Irrit. 2 H319
See SECTION 16 for full text

2.2 Labelling elements:

Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:



Hazard pictograms:

Signal word:

Warning

Hazard statements:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes severe eye irritation.

Safety recommendations:

SAFETY DATA SHEET

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Precautions - prevention:

P280 Wear protective gloves/eye protection.

Precautions - reaction:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses, if possible; continue rinsing.

P332+P313 In case of skin irritation: consult a doctor.

Labelling of packages with a total content not exceeding 125 ml



Symbol/symbols:

Signal word: Warning

Labelling of packages with a total content not exceeding 10 ml

Signal word: Not required

Hazard pictogram(s): Not required

Hazard statements: Not required

Safety recommendations: Not required

2.3 Other hazards:

Results of PBT and vPvB assessment

The results of the assessment of the substance show that it is not a PBT or vPvB substance.

Endocrine-disrupting properties

Contains no endocrine disruptor (ED) at a concentration of ≥ 0.1%.

SECTION 3: Composition and information on ingredients

3.1 Substances:

Name of substance: Iron (II) sulphate heptahydrate
Molecular formula: $\text{FeSO}_4 \cdot 7 \text{H}_2\text{O}$
Molar mass: 278 g/mol
REACH reg. no: 01-2119513203-57-xxxx
CAS no: 7782-63-0
EC no: 231-753-5
Catalogue no.: 026-003-01-4

Substance, Specific concentration limits, M-factors, ATE			
Specific concentration limits	M-Factors	ATE	Route of exposure
Skin Irrit. 2; H315: C ≥ 25 %.	-	1,520 mg/kg	Oral

See SECTION 16 for the full text.

SECTION 4: First aid measures

4.1 Description of first-aid measures:

General comments

Remove contaminated clothing immediately.

When inhaled

Provide fresh air.

If in doubt or if symptoms persist, consult a doctor.

In case of skin contact

Rinse/shower skin with water.

In case of skin irritation, consult doctor.

On eye contact

Rinse with clean, flowing water for at least 10 minutes while keeping the eyelids open.

In case of eye irritation, consult an ophthalmologist.

If swallowed

Rinse mouth with water (only if the person is conscious).

Consult a doctor.

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4.2 Main acute and delayed symptoms and effects

Vomiting, Irritation, Gastrointestinal distress, Headache.

4.3 Indication of any immediate medical care and special treatment needed

None.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing agents

Match fire-fighting measures to the environment!

Water, foam, alcohol-resistant foam, dry extinguishing powder, ABC powder.

Unsuitable extinguishing agents

Full water jet.

5.2 Special hazards arising from the substance or mixture

Non-flammable.

Hazardous combustion products:

In case of fire, sulphur oxides (SO_x) may be formed.

5.3 Advice for firefighters

In case of fire and/or explosion, avoid breathing fumes.

With normal precautions, extinguish from a reasonable distance.

Wear self-contained breathing apparatus.

SECTION 6: Measures in case of accidental release of the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

For persons other than emergency services

Avoid contact with skin, eyes and clothing.

Do not inhale dust.

6.2 Environmental precautions

Avoid getting the product into drains, surface water or groundwater.

Retain and remove contaminated wash water.

6.3 Containment and cleaning methods and materials

Advice on how to contain the spill

Covering drains.

Mechanical recording.

Advice on how to clean up the spill

Mechanical recording.

Combating dust formation.

Other information relating to the discharge or release

Put into suitable retainers for disposal.

6.4 Reference to other sections

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Instructions for disposal: see section 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling of the substance or mixture:

Avoid dust generation.

Measures to prevent fire and aerosol or dust formation

Removal of dust deposits.

Advice on general occupational hygiene

Wash hands before work breaks and end of work.

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Keep away from food, drink and animal feed.

7.2 Conditions for safe storage, including incompatibilities

Store in a dry place.

Decomposition possible with prolonged light exposure.

Hygroscopic solid.

Incompatible substances or mixtures

Note advice for chemical storage.

Incompatible materials: see section 10.

Consideration of other advice:

Ventilation requirements

Use of local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25°C.

7.3 Specific end use

No information is available.

SECTION 8: Exposure controls/personal protection measures

8.1 Control parameters:

National limits

Occupational exposure limits (occupational exposure limits)

This information is not available.

8.2 Exposure control measures

Individual protection measures (personal protective equipment)

Eye/face protection

Wear safety goggles with side protection.

Skin protection

Hand protection

Wear suitable gloves.

Suitable are EN 374-tested gloves against chemicals.

Determine leak tightness/impermeability before use.

It is recommended that, in case of special applications, the chemical resistance of the safety gloves mentioned above be checked together with the supplier of the gloves.

Times are estimated values from measurements at 22°C and permanent contact.

Increased temperatures due to heated fabrics, body heat, etc.

And a reduction in effective layer thickness due to stretching can lead to a significant reduction in breakthrough time.

If in doubt, contact the manufacturer.

For a layer thickness approximately 1.5 times larger / smaller, the respective breakthrough time is doubled / halved.

The data applies only to the pure substance.

When transferred to mixtures of substances, they should only be considered as guidelines.

Type of material

NBR (nitrile rubber)

Material thickness

>0.3 mm

Breakthrough time of glove material

>480 minutes (permeation level: 6)

Other protective equipment

Insert rest periods for skin regeneration.

Preventive skin protection (skin-protective creams) is recommended.

Protection of respiratory organs

Respiratory protection is necessary in case of: Dust generation.

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Particle filter (EN 143).
P2 (filters at least 94% of air particles, colour code: white).

Managing environmental exposure

Avoid getting the product into drains, surface water or groundwater.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:	solid
Shape:	crystalline
Colour:	blue-green
Odour:	odourless
Melting/freezing point:	64 °C (Issue of crystalline water)
Boiling point or initial boiling point and boiling range:	undetermined
Flammability:	non-flammable
Lower and upper explosion limit:	irrelevant (solid)
Flash point:	not applicable
Self-ignition temperature:	undetermined
Decomposition temperature:	>300 °C
pH value:	3 - 4 (in aqueous solution: 50 g/l, 20 °C)
Kinematic viscosity:	irrelevant

Solubility

Solubility in water: ~400 g/l at 20 °C

Partition coefficient

Partition coefficient n-octanol/water (log value): not relevant (inorganic)

Vapour pressure: not determined

Density and/or relative density

Density: 1.89 g/cm³ at 20 °C

Relative vapour density: irrelevant (solid)

Bulk density: ~600 kg/m³

Particle characteristics:

Particle size: No data available.

Other safety parameters

Oxidising properties: None

9.2 Other information

Information on physical hazard classes: hazard classes in accordance with GHS
(physical hazards): not relevant.

Other safety features: There is no further information.

SECTION 10: Stability and reactivity

10.1 Reactivity:

This substance is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal atmospheric conditions and expected temperature and pressure during storage and handling.

10.3 Possible hazardous reactions

Violent reaction with: strongly oxidising, Bases.

10.4 Conditions to avoid

Keep away from heat.

Decomposition occurs from temperatures of: >300 °C.

Direct light irradiation.

Protect against moisture.

10.5 Incompatible materials

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There is no further information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Harmful if swallowed.

Route of exposure	End point	Value	Species	Method	Source
Oral	LD50	1,520 mg/kg	Mouse		ECHA

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes severe eye irritation.

Respiratory or skin sensitisation

Is not classifiable as inhalant or skin allergenic.

Mutagenicity in gametes

Is not classifiable as mutagenic in germ cells (mutagenic).

Carcinogenicity

Is not classifiable as carcinogenic.

Reproductive toxicity

Is not classifiable as a reproductive toxicant.

Specific target organ toxicity at single exposure

Cannot be classified as toxic to specific target organs (single exposure).

Specific target organ toxicity on repeated exposure

Cannot be classified as toxic to specific target organs (repeated exposure).

Inhalation hazard

Is not classifiable as dangerous in aspiration.

Symptoms related to physical, chemical and toxicological properties

- After swallowing

gastrointestinal symptoms, nausea, vomiting, diarrhoea.

- In case of contact with eyes

Discolouration of the cornea, Causes severe eye irritation.

- After inhalation

Inhaling dust can cause respiratory irritation.

- On contact with skin

causes skin irritation, danger of absorption through the skin.

- Other information

Falling blood pressure, Collapse (circulatory system), Cardiac arrhythmias, Unconsciousness, Liver and kidney damage, Symptoms may also occur only many hours after exposure.

11.2 Additional information

Contains no endocrine disruptor (ED) at a concentration of ≥ 0.1%.

11.3 Information on other hazards

There is no further information.

SECTION 12: Ecological information

12.1 Toxicity:

Cannot be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)				
End point	Value	Species	Source	Exposure time
EC50	152 mg/l	daphnia magna	IUCLID	48 h
LC50	925 mg/l	Poecilia reticulata	IUCLID	96 h

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12.2 Persistence and Degradability:

No data are available.

12.3 Bioaccumulation:

No data are available.

12.4 Mobility in soil:

No data are available.

12.5 Results of PBT and vPvB assessment

No data are available.

12.6 Endocrine disrupting properties

Contains no endocrine disruptor (ED) at a concentration of ≥ 0.1%.

12.7 Other adverse effects

No data are available.

SECTION 13: Disposal instructions

13.1 Waste treatment methods:

Dispose of this substance and its packaging as hazardous waste.

Dispose of contents/packaging in accordance with local/regional/national/international regulations.

Information regarding wastewater discharge

Do not throw waste into the sink.

Waste treatment of containers/packaging

Contaminated packaging can be treated like the substance itself.

Fully emptied containers can be recycled.

Relevant provisions on waste prevention

The allocation of waste key numbers/waste markings should be industry- and process-specific in accordance with AVV.

Hazardous properties of waste

HP 4 irritant - skin irritation and eye damage

HP 6 acute toxicity

Comments

Waste is separated into the categories that can be treated separately by local or national waste management services.

Please note the relevant national or regional provisions.

Untamated and completely empty containers can be used again.

SECTION 14: Information relating to transport

14.1 UN number or ID number

Not subject to transport regulations.

14.2 Proper cargo name according to UN model regulations

Not granted.

14.3 Transport hazard class(es)

None.

14.4 Packing group

Not granted.

14.5 Environmental hazards

Not hazardous to the environment, according to regulations for the transport of dangerous goods.

14.6 Special precautions for the user

There is no further information.

14.7 Sea transport in bulk in accordance with IMO instruments

The cargo is not meant to be transported in bulk.

14.8 Information for each of the UN regulations

Transport of dangerous goods by road, rail or inland waterway (ADR/RID/ADN) - Additional information

Not subject to ADR, RID and ADN.

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International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to the IMDG.

International Civil Aviation Organisation (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

SECTION 15: Statutory information15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:**Relevant European Union (EU) provisions****Restrictions in accordance with REACH, Annex XVII****Restricted hazardous substances (REACH, Annex XVII)**

Name of substance	Name according to inventory	CAS No.	Restriction	No.
Iron (II) sulphate heptahydrate	substances in ink for tattoo or permanent make-up		R75	75

Legend**R75**

1. Shall not be placed on the market in mixtures for tattooing purposes, and mixtures containing such substances shall not be used for tattooing purposes after 4 January 2022 if the substance(s) in question is/are present or if the following circumstances occur:

- a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogenic category 1A, 1B or 2, or as germ cell mutagenic category 1A, 1B or 2, the concentration of that substance in the mixture is equal to or greater than 0.00005 % by weight;
- b) in the case of a substance classified as toxic to reproduction category 1A, 1B or 2 in Part 3 of Annex VI to Regulation (EC) No 1272/2008, the concentration of that substance in the mixture is equal to or greater than 0.001 % by weight;
- c) in the case of a substance classified as a category 1, 1A or 1B skin allergen in Part 3 of Annex VI to Regulation (EC) No 1272/2008, the concentration of that substance in the mixture is equal to or greater than 0.001 % by weight;
- d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as corrosive to the skin, category 1, 1A, 1B or 1C, or irritant to the skin, category 2, or for serious eye damage, category 1 or irritant to the eyes, category 2, the concentration of that substance in the mixture is equal to or greater than:
 - i. 0.1 % by weight, if the substance is used solely as a pH regulator;
 - ii. 0.01% by weight, in all other cases;
- e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), a concentration in the mixture equal to or greater than 0,00005 % by weight; in the case of a substance for which column g (Product type, body parts) of the table in Annex IV to Regulation (EC) No 1223/2009 indicates one or more of the following types of conditions, the concentration of the substance in the mixture equal to or greater than 0,00005 % by weight:
 - i. "Products washed off, out or away";
 - ii. "Do not use in products applied to mucous membranes";
 - iii. "Do not use in eye products";
- f) in the case of a substance for which a condition is specified in column h (Maximum concentration in the product ready for use) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the concentration of the substance in the mixture does not meet the condition specified in that column, or the substance otherwise fails to meet it;
- g) in the case of a substance listed in Appendix 13 to this Annex, the concentration of the substance in the mixture is equal to or greater than the concentration limit specified for that substance in that Appendix.

2. For the purposes of this entry, the use of a mixture "for tattooing purposes" means the injection or insertion of the mixture into the skin, mucous membranes or eyeball of a person by means of a process or procedure (including procedures commonly referred to as "permanent make-up", cosmetic tattooing, "microblading" and "micropigmentation"), for the purpose of leaving a permanent mark(s) or drawing on that person's body.

3. Where a substance not listed in Appendix 13 falls under more than one of items (a) to (g) of paragraph 1, the most stringent of the concentration limits set out in those items shall apply to that substance. Where a substance listed in Appendix 13 also falls under one or more of items (a) to (g) of paragraph 1, the concentration limit set out in paragraph 1(h) shall apply to that substance.

4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:

- a. Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
- b. Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).

5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 and thereby classifies or reclassifies a substance in such a way that it falls under (a), (b), (c) or (d) of paragraph 1 of this entry, or under a different entry than before, and if the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall be treated, for the purposes of applying this entry to that substance, as applying on the date of application of that new or revised classification.

6. Where the entry of a substance in Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 such that the substance falls under (e), (f) or (g) of point 1 of this entry, or under a different point than before, and if the amendment takes effect after the date referred to in point 1 or, as the case may be, point 4 of this entry, that amendment shall be treated, for the purposes of applying this entry to that substance, as taking effect from the date falling 18 months after the entry into force of the act which adopted that amendment.

7. Suppliers placing a mixture on the market for tattooing purposes after 4 January 2022 shall ensure that the following information is indicated on the mixture:

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- a) the text "Mixture for use in tattoos or permanent make-up";
- b) a unique batch identification reference number;
- c) the list of ingredients according to the nomenclature defined in the glossary of common ingredient names in accordance with Article 33 of Regulation (EC) No 1223/2009, or, in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC designation, the CAS and EC number. Ingredients shall be listed in descending order of weight or volume of ingredients at the time of formulation. Ingredient means any substance added during the formulation of the mixture for tattooing purposes and present therein. Impurities are not considered ingredients. Where the name of a substance used as an ingredient within the meaning of this entry must already be indicated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient need not be indicated in accordance with this Regulation;
- d) the additional entry "pH regulator" for substances covered by paragraph 1(d)(ii);
- e) the statement "Contains nickel. May cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;
- f) the statement "Contains hexavalent chromium (VI). May cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;
- g) safety precautions for use, if not already required to be indicated on the label in accordance with Regulation (EC) No 1272/2008. The information shall be clearly visible, easily legible and indelible. The information shall appear in the official language(s) of the Member State(s) where the mixture is marketed, unless otherwise specified by the Member State(s) concerned. If there is not enough space on the packaging for the information referred to in the first subparagraph, that information shall, except as regards point (a), be included in the instructions for use. The person administering the mixture shall provide the information specified on the packaging or in the instructions for use in accordance with this point to the person undergoing the procedure before the mixture is used for tattooing purposes.

8. Mixtures without the text "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

9. This entry does not apply to substances which are gases at a temperature of 20 °C and pressure of 101.3 kPa, or which generate a vapour pressure greater than 300 kPa at a temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market or use of mixtures for tattooing purposes that are placed on the market or used exclusively as medical devices or accessories to a medical device within the meaning of Regulation (EU) 2017/745. Where a mixture has not been placed on the market or cannot be used exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and the requirements of this Regulation apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

not listed

Seveso Directive**2012/18/EU (Seveso III)**

No.	Hazardous substance/hazard categories	Thresholds (tonnes) for application of requirements for lower and upper-tier establishments	Nuts
	Not awarded		

Decopaint Directive

VOC content: 0 %

VOC content: 0 g/l

Directive on industrial emissions (IE Directive)

VOC content: 0 %

VOC content: 0 g/l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

Not stated.

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Not stated.

Water framework directive (WFD)**List of pollutants (WFD)**

Name of substance	Name according to inventory	CAS No.	Included in	Comments
Iron (II) sulphate heptahydrate	Metals and metal compounds		a)	

Legend

(a) Indicative list of the main pollutants

Regulation on marketing and use of explosives precursors

Not stated.

Regulation on drug precursors

Not stated.

Regulation on ozone-depleting substances

Not stated.

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Regulation on export and import of dangerous chemicals (PIC)

Not stated.

Regulation on persistent organic pollutants (POPs)

Not stated.

Other information

Directive 94/33/EC on the protection of young people at work. Observe work restrictions in accordance with the Pregnancy Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	List	Status
AU	AIIC	substance is mentioned
CN	IECSC	substance is mentioned
EU	ECSI	substance is mentioned
JP	CSCL-ENCS	substance is mentioned
KR	KECI	substance is mentioned
MX	INSQ	substance is mentioned
NZ	NZIoC	substance is mentioned
PH	PICCS	substance is mentioned
TW	TCSI	substance is mentioned
UN	NCI	substance is mentioned

Legend

AIIC:	Australian Inventory of Industrial Chemicals
CICR:	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
ECSI:	EC inventory (EINECS, ELINCS, NLP)
IECSC:	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ:	National Inventory of Chemical Substances
KECI:	Korea Existing Chemicals Inventory
NCI:	National Chemical Inventory
NZIoC:	New Zealand Inventory of Chemicals
PICCS:	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
TCSI:	Taiwan Chemical Substance Inventory

15.2 Chemical safety assessment:

According to REACH, Article 14(1), a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.

SECTION 16: Other information**Indication of changes (revised safety data sheet)**

Aligning with regulation: Regulation (EC) No 1907/2006 (REACH), amended by 2020/878/EU.

Section 2.2:

Labelling of packages with a total content of 125 ml or less: change in the list (table)

Section 2.2:

Labelling of packages with a total content not exceeding 10 ml

List of relevant sentences (code and full text as mentioned in sections 2 and 3)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes severe eye irritation.

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement); AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Association for the Testing of Materials; bw - Body Weight; CLP - Regulation on Classification, Labelling and Packaging; Regulation (EC) No 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardisation; DSL - List of substances used indoors (Canada); ECHA - European Chemicals Agency; EC-Number - EINECS number; ECx - Concentration associated with x% response; ELx - Charge capacity associated with x% response; EmS -

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Emergency Schedule; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half-Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organisation; IECSC - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korean Inventory of Existing Chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (lethal dose median); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No discernible (negative) effect on concentration; NO(A)EL - No discernible (negative) effect on Level; NOELR - No discernible effect on cargo capacity; NZIoC - New Zealand inventory of chemicals; OECD - Organisation for Economic Co-operation and Development OECD; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Philippine inventory of chemicals and chemical substances; (Q)SAR - (Quantitative) structure-activity relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulations concerning the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwanese Inventory of Chemical Substances; TECL - Inventory of Chemical Substances Existing in Thailand; TRGS - Technical Regulation on Hazardous Substances; TSCA - Toxic Substances Control Act (USA); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice:

Provide proper information, instruction and training for users.

Reference documents:

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

Regulation (EC) No 1907/2006 (REACH), as amended by 2020/878/EU.

Transport of dangerous goods by road, rail or inland waterways (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for aviation (IATA).

Rejection of liability

This information is based on the current state of our knowledge. This safety data sheet has been compiled and is exclusively intended for this product.