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



Sodium fluoride ROTI®METIC 99,995 % (4N5)

article number: **4503** Version: **5.0 en** Replaces version of: 12.12.2023 Version: (4)

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

1.1 Product identifier

Identification of the substance

Article number

Registration number (REACH)

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It is not required to list the identified uses because the substance is not subject to registration according to REACH (< 1 t/a).

Index number in CLP Annex VI

EC number

CAS number

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

e-mail (competent person):

sicherheit@carlroth.de

1.4 Emergency telephone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.10	Acute toxicity (oral)	3	Acute Tox. 3	H301
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319

date of compilation: 25.10.2018

Revision: 04.03.2024

cause the according

009-004-00-7

231-667-8

7681-49-4

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



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Suppleme	ntal hazard information	
Code	Supplemental hazard information	de
EUH032	contact with acids liberates very toxic gas	032

For full text of abbreviations: see SECTION 16

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

Pictograms

GHS06



Hazard statements

H301	Toxic if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation

Precautionary statements

Precautionary statements - prevention

P270	Do not eat, drink or smoke when using this product
P280	Wear protective gloves/eye protection

Precautionary statements - response

P302+P352 IF ON SKIN: Wash with plenty of water P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Supplemental hazard information

EUH032 Contact with acids liberates very toxic gas.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Symbol(s)



H301	Toxic if swallowed.
P270	Do not eat, drink or smoke when using this product.
EUH032	Contact with acids liberates very toxic gas.

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



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2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance	Sodium fluoride
Molecular formula	NaF
Molar mass	41,99 ^g / _{mol}
CAS No	7681-49-4
EC No	231-667-8
Index No	009-004-00-7

Substance, Specific Conc. Limits, M-factors, ATE				
Specific Conc. Limits	M-Factors	ATE	Exposure route	
-	-	148,5 ^{mg} / _{kg}	oral	

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. Rub with a gel containing calcium gluconate. In case of skin irritation, consult a physician.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Rinse copiously with a calcium gluconate solution. In case of eye irritation consult an ophthalmologist.

Following ingestion

Rinse mouth immediately and drink plenty of water. Rinse copiously with a calcium gluconate solution. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritation, Nausea, Vomiting, Spasms

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



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4.3 Indication of any immediate medical attention and special treatment needed none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Non-combustible.

Hazardous combustion products

In case of fire may be liberated: Hydrogen fluoride (HF)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically. Control of dust.

Other information relating to spills and releases

Place in appropriate containers 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. Disposal considerations: see section 13.

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

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SECTION 7: Handling and storage

Precautions for safe handling 7.1

Provide adequate ventilation. Avoid dust formation. Do not mix with acids. Clear contaminated areas thoroughly.

Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

Advice on general occupational hygiene

When using do not eat or drink. Thorough skin-cleansing after handling the product.

Conditions for safe storage, including any incompatibilities 7.2

Store in a dry place. Keep container tightly closed.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Store locked up.

Ventilation requirements

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Coun try	Name of agent	CAS No	Identifi- er	TWA [mg/ m³]	STEL [mg/ m³]	Ceil- ing-C [mg/ m ³]	Nota- tion	Source
EU	fluorine, inorganic com- pounds	7681-49-4	IOELV	2,5				2000/39/EC
MT	fluorides, inorganic	7681-49-4	OELV	2,5				CAP. 424

Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-STEL

minute period (unless otherwise specified) Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified) TWA



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Human health values						
Relevant DNELs and other threshold levels						
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time		
DNEL	2,5 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects		
DNEL	2,5 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects		
DNEL	0,36 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects		
DNEL	0,36 mg/kg bw/ day	human, dermal	worker (industry)	acute - systemic effects		

Environmental values

Relevant PNECs and other threshold levels						
End- point	Threshold level	Organism	Environmental com- partment	Exposure time		
PNEC	0,9 ^{mg} / _l	aquatic organisms	freshwater	short-term (single instance)		
PNEC	51 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)		
PNEC	11 ^{mg} / _{kg}	terrestrial organisms	soil	short-term (single instance)		

8.2 **Exposure controls**

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Skin protection



hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

type of material

NBR (Nitrile rubber)

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



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material thickness

>0,11 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P3 (filters at least 99,95 % of airborne particles, colour code: White).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Form	powder
Colour	white
Odour	odourless
Melting point/freezing point	996 °C at 1.013 hPa
Boiling point or initial boiling point and boiling range	1.695 °C at 1.013 hPa
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	not applicable
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	9 – 10 (in aqueous solution: 40 ^g / _l , 20 °C)
Kinematic viscosity	not relevant
Solubility(ies)	
Water solubility	39,6 ^g / _l at 25 °C (ECHA)
Partition coefficient	
Partition coefficient n-octanol/water (log value):	-0,77 (calc.)
Vapour pressure	not determined

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	Density and/or relative density			
	Density	2,76 ^g / _{cm³} at 20 °C		
	Relative vapour density	Information on this property is not available.		
	Particle characteristics	No data available.		
	Other safety parameters			
	Oxidising properties	none		
2	Other information			
	Information with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant		
	Other safety characteristics:	There is no additional information.		

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Contact with acids liberates very toxic gas: Hydrogen fluoride (HF)

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information.

Release of toxic materials with

Acids.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

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

Acute toxicity

Toxic if swallowed.

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	148,5 ^{mg} / _{kg}	rat		ECHA

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



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Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

vomiting, nausea, poisoning effect on central nervous system can cause convulsions, laboured breathing and loss of consciousness

• If in eyes

Causes serious eye irritation

• If inhaled

Data are not available.

• If on skin

causes skin irritation, risk of absorption via the skin

Other information

Other adverse effects: Skeletal system

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

11.3 Information on other hazards

There is no additional information.

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



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SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

Endpoint	Value	Species	Source	Exposure time
EC50	48 ^{mg} / _l	aquatic invertebrates	ECHA	96 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW)	-0,77 (Calc.)
BCF	53 – 58 (ECHA)

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

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



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Properties of waste which render it hazardous

- HP 4 irritant skin irritation and eye damage
- HP 6 acute toxicity
- HP 12 release of an acute toxic gas

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

14.1	ON number of 1D number	
	ADR	UN 1690
	IMDG-Code	UN 1690
	ICAO-TI	UN 1690
14.2	UN proper shipping name	
	ADR	SODIUM FLUORIDE, SOLID
	IMDG-Code	SODIUM FLUORIDE, SOLID
	ICAO-TI	Sodium fluoride, solid
14.3	Transport hazard class(es)	
	ADR	6.1
	IMDG-Code	6.1
	ICAO-TI	6.1
14.4	Packing group	
	ADR	III
	IMDG-Code	III
	ICAO-TI	III
14.5	Environmental hazards	non-environmentally hazardous acc. to the dan- gerous goods regulations

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name	SODIUM FLUORIDE, SOLID
Particulars in the transport document	UN1690, SODIUM FLUORIDE, SOLID, 6.1, III, (E)
Classification code	Т5
Danger label(s)	6.1

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\diamond	
Special provisions (SP)	802(ADN)
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
Transport category (TC)	2
Tunnel restriction code (TRC)	E
Hazard identification No	60
International Maritime Dangerous Goods	Code (IMDG) - Additional information
Proper shipping name	SODIUM FLUORIDE, SOLID
Particulars in the shipper's declaration	UN1690, SODIUM FLUORIDE, SOLID, 6.1, I
Marine pollutant	-
Danger label(s)	6.1
Special provisions (SP)	-
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
EmS	F-A, S-A
Stowage category	A
International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information
Proper shipping name	Sodium fluoride, solid
Particulars in the shipper's declaration	UN1690, Sodium fluoride, solid, 6.1, III
Danger label(s)	6.1
Excepted quantities (EQ)	E1
Limited quantities (LQ)	10 kg

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

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



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Dan	gerous substances with re	estrictions (REACH, Annex XVII)			
· · · · · ·	Name of substance	Name acc. to inventory	CAS No	Restriction	No
	Sodium fluoride	substances in tattoo inks and perman- ent make-up		R75	75
	•				
Legen	 Shall not be placed on the mastances shall not be used for tatare present in the following circu (a) in the case of a substance clata, 1B or 2, or germ cell mutage equal to or greater than 0,00005 (b) in the case of a substance clacategory 1A, 1B or 2, the substance dae gory 1, 1A or 1B, the substance claegory 1, 1A or 1B, the substance dae gory 1, 1A or 1B, the substance dae gory 1, 1A, 1B or 1C or skin irrit substance is present in the mixt (i) 0, 1% by weight, if the substance for (Product type, Body parts) of the mixture in a concentration equa (f) in the case of a substance for (Product type, Body parts) of the mixture in a concentration equa (i) "Rinse-off products"; (ii) "Not to be used in products a (iii) "Not to be used in eye produ (g) in the case of a substance for preparation) or column i (Other) the mixture in a concentration, (h) in the case of a substance list tration equal to or greater than 2. For the purposes of this entry, ture into a person's skin, mucou monly referred to as permanent making a mark or design on his 3. If a substance not listed in Ap concentration limit laid down in 13 also falls within one or more paragraph 1 shall apply to that set. By way of derogation, paragraf (a) Pigment Green 7 (CI 74260, E). If Part 3 of Annex VI to Regula stance such that the substance that it then falls within a differer plication of that new or revised of graph 4 of this entry, that amentaking effect on the date of appl 6. If Annex II or Annex IV to Regula stance such that the substance for that amendment shall, for the purpliers placing a mixture or mixture is marked with the follo (a) the statement "Mixture for us (b) a reference number to uniqu (c) the list of ingredients in acconnames pursuant to Article 33 of IUPAC name. In the absence of a bubstance added during the purities shall not be regarded as this entry, is already required to ent does not need to be marked of the additional statement "hitting the substance added during the purities shall not be regarded as th	ssified in Part 3 of Annex VI to Regulation n category 1A, 1B or 2, the substance is p is by weight; ssified in Part 3 of Annex VI to Regulation nee is present in the mixture in a concentrati- ssified in Part 3 of Annex VI to Regulation is present in the mixture in a concentrati- ssified in Part 3 of Annex VI to Regulation ant category 2, or as serious eye damage- ure in a concentration equal to or greater nee is used solely as a pH regulator; cases; ed in Annex II to Regulation (EC) No 1223. I to or greater than 0,00005 % by weight; which a condition of one or more of the fi- table in Annex IV to Regulation (EC) No 1 I to or greater than 0,00005 % by weight; pplied on mucous membranes"; cts"; which a condition is specified in column I of the table in Annex IV to Regulation (EC) or in some other way, that does not accord ed in Appendix 13 to this Annex, the subs the concentration limit specified for that s use of a mixture "for tattooing, micro-blad or her body. pendix 13 falls within more than one of por the points in question shall apply to that so of points (a) to (g) of paragraph 1, the con- substance. aph 1 shall not apply to the following subs EC No 215-524-7, CAS No 147-14-8); C No 215-524-7, CAS No 147-	ne substance of (EC) No 1272/ resent in the r (EC) No 1272/ ration equal to (EC) No 1272/ on equal to or (EC) No 1272/ category 1 or than: /2009 (*1), the ollowing kinds 223/2009, the h (Maximum c 2) No 1223/200 d with the con trance is prese substance in th means injecti r procedure (ir ing and micro bints (a) to (g) substance. If a icentration lim stances until 4 4 January 202 ² or (d) of paragraph 1 this entry to t n. er 4 January 202 or (d) of paragraph 1 this entry to t n. er 4 January 202 or (d) of paragraph 1 this entry to t n. et al January 202 or (d) of paragraph 1 this entry to t n. et al January 202 or (d) of paragraph 1 this entry to t n. et al January 202 or (d) of paragraph 1 this entry to t n. et me of a con- he time of form et mix of form et al of form et mix of for	or substances in quest 2008 as carcinogen of mixture in a concentri 2008 as reproductive or greater than 0,000 2008 as skin sensitist greater than 0,001 2008 as skin corrosis eye irritant category e substance is present oncentration in read 9, the substance is present on centration in read 9, the substance is present on or introduction of netuding procedures -pigmentation), with of paragraph 1, the sistication of it laid down in point January 2023: 1 to classify or re-class reviously, and the da or, as the case may hat substance, be tree 021 to list or change irragraph 1 of this entry, of reviously, and the da or, as the case may hat substance, be tree 021 to list or change irragraph 4 of this ated as taking effect adde. e that, after 4 January ry of common ingredient na d EC number. Ingred mon ingredient na d EC number. Ingred intation. "Ingredient na d EC number Ingredient na d EC num	stion is categor ation e toxica 01 % by er cat- % by /e cat- ? 2, the t in the y for us resent at colume t in the y for us resent at colume t in the sify a s for such the ain the list try, or sentry, from th y 2022, lient ing of the ment sentry, from th y 2022, lient ing of the ment sentry, from th y 2022, lient ing of the ment sentry, from th y 2022, lient ing of the ment sentry, from th y sentry from th y sen

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Legend

1272/2008.

The information shall be clearly visible, easily legible and marked in a way that is indelible.

The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the

market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use. Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this para-

graph. 8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or gener-ate a vapour pressure of more than 300 kPa at 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 of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

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

Not listed.

Seveso Directive

2012/	2012/18/EU (Seveso III)			
Νο	Dangerous substance/hazard categories	plication of lower	(tonnes) for the ap- and upper-tier re- ments	Notes
H2	acute toxic (cat. 2 + cat. 3, inhal.)	50	200	41)

Notation

41)

- Category 2, all exposure routes - category 3, inhalation exposure route

Deco-Paint Directive

VOC content	0 %
VOC content	0 ^g / _l

Industrial Emissions Directive (IED)

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 listed

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

not listed



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



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Water Framework Directive (WFD)				
List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Sodium fluoride	Metals and their compounds		a)	

Legend

Indicative list of the main pollutants a)

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

AIIC

DSL

Australian Inventory of Industrial Chemicals Chemical Inventory and Control Regulation List of Existing and New Chemical Substances (CSCL-ENCS) Domestic Substances List (DSL) CICR CSCL-ENCS

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



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Legend	
ECSI	EC Substance 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)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in imple- mentation of Council Directive 98/24/EC
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CAP. 424	Occupational Health and Safety Authority Act (CAP. 424)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions

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

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Abbr.	Descriptions of used abbreviations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
NLP	No-Longer Polymer
РВТ	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H301	Toxic if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.