N,O-Bis(trimethylsilyl)-trifluoroacetamide with 1 % trimethylchlorosilane for gas chromatography

article number: **9935** Version: **4.0 en** Replaces version of: 28.08.2023 Version: (3) date of compilation: 01.03.2018 Revision: 04.03.2024

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

graphy

247-103-9

25561-30-2

9935

1.1 Product identifier

Identification of the substance

Article number

EC number

CAS number

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

Relevant identified uses:

Laboratory chemical Laboratory and analytical use

Uses advised against:

Do not use for private purposes (household). Food, drink and animal feedingstuffs.

N,O-Bis(trimethylsilyl)-trifluoroacetamide with 1 % trimethylchlorosilane for gas chromato-

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	n Hazard class		Hazard class and category	Hazard statement
2.6	Flammable liquid		Flam. Liq. 2	H225
3.2	Skin corrosion/irritation		Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319

Supplemental hazard information



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



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Code	Supplemental hazard information
EUH014	reacts violently with water

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

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

Signal word Danger

Pictograms

GHS02, GHS07



Hazard statements

H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H319	Causes serious eye irritation

Precautionary statements

Precautionary statements - prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
 P280 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statements - response

P302+P352IF ON SKIN: Wash with plenty of waterP305+P351+P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
lenses, if present and easy to do. Continue rinsing

Supplemental hazard information

EUH014 Reacts violently with water.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger





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

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EUH014 Reacts violently with water.

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	N,O-Bis(trimethylsilyl)-trifluoroacetamide
Molecular formula	$C_8H_{18}F_3NOSi_2$
Molar mass	257,4 ^g / _{mol}
CAS No	25561-30-2
EC No	247-103-9

Impurities/additives/constituents:

Name of substance	Identifier	Wt%
Trimethylchlorosilane	CAS No 75-77-4 EC No 200-900-5	1

Remarks

For full text of abbreviations: see SECTION 16

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. 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. In case of eye irritation consult an ophthalmologist.

Following ingestion





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Rinse mouth. Call a doctor if you feel unwell.

- **4.2 Most important symptoms and effects, both acute and delayed** Irritation
- **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! dry extinguishing powder, BC-powder, carbon dioxide (CO₂), dry sand

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapourair mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours may form explosive mixtures with air.

Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO₂)

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

Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

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.

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

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Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation. Use extractor hood (laboratory).

Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge. Due to danger of explosion, prevent leakage

of vapours into cellars, flues and ditches.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep in a cool place.

Incompatible substances or mixtures

Observe hints for combined storage.

Protect against external exposure, such as

humidity, contact with air/oxygen

Consideration of other advice:

Ground/bond container and receiving equipment.

Ventilation requirements

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 2 - 8 °C

7.3 Specific end use(s)

No information available.



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



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

Relevant DNELs	of compone	ents				
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
Trimethylchlorosil- ane	75-77-4	DNEL	24 mg/m ³	human, inhalat- ory	worker (industry)	chronic - local ef- fects
Trimethylchlorosil- ane	75-77-4	DNEL	24 mg/m ³	human, inhalat- ory	worker (industry)	acute - local ef- fects

Relevant PNECs of components

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Trimethylchlorosil- ane	75-77-4	PNEC	0,25 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
Trimethylchlorosil- ane	75-77-4	PNEC	0,025 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)
Trimethylchlorosil- ane	75-77-4	PNEC	67 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Trimethylchlorosil- ane	75-77-4	PNEC	2 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Trimethylchlorosil- ane	75-77-4	PNEC	0,2 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
Trimethylchlorosil- ane	75-77-4	PNEC	0,25 ^{mg} / _{kg}	terrestrial organ- isms	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





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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 consider-able 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

PVC: polyvinyl chloride

material thickness

>0,11 mm

• breakthrough times of the glove material

>30 minutes (permeation: level 2)

• other protection measures

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

Flame-retardant protective clothing.

Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 $^{\circ}$ C, colour code: Brown).

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	liquid
Colour	colourless - light yellow
Odour	characteristic - stinging
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	146 °C at 1.013 hPa
Flammability	flammable liquid in accordance with GHS criteria
Flammability Lower and upper explosion limit	flammable liquid in accordance with GHS criteria not determined
	•
Lower and upper explosion limit	not determined
Lower and upper explosion limit Flash point	not determined 7 °C

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pH (value)	not determined
Kinematic viscosity	not determined
Solubility(ies)	
Water solubility	not determined
Partition coefficient	
	the instance of the state of the state of the balance
Partition coefficient n-octanol/water (log value):	this information is not available
Vapour pressure	not determined
Density and/or relative density	
Density and/or relative density	
Density	0,97 ^g / _{cm³} at 20 °C
Relative vapour density	Information on this property is not available.
Particle characteristics	not relevant (liquid)
Other safety parameters	
Oxidising properties	none
Other information	
Information with regard to physical hazard	There is no additional information.
classes:	
Other safety characteristics:	There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

It's a reactive substance. Risk of ignition. Vapours may form explosive mixtures with air.

If heated

Risk of ignition.

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

Violent reaction with: strong oxidiser, Acids, Water

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from moisture.

10.5 Incompatible materials

There is no additional information.

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



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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

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components							
Name of substance	CAS No	Exposure route	ATE				
Trimethylchlorosilane	75-77-4	oral	100 ^{mg} / _{kg}				
Trimethylchlorosilane	75-77-4	dermal	1.530 ^{mg} / _{kg}				
Trimethylchlorosilane	75-77-4	inhalation: vapour	3 ^{mg} /ı/4h				

Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Trimethylchlorosilane	75-77-4	dermal	LD50	1.530 ^{mg} / _{kg}	rabbit

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

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



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If swallowed

Data are not available.

• If in eyes

Causes serious eye irritation

• If inhaled

Data are not available.

• If on skin

causes skin irritation

Other information

none

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.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Trimethylchlorosilane	75-77-4	LC50	>949 ^{mg} / _l	fish	24 h
Trimethylchlorosilane	75-77-4	EC50	>905 ^{mg} / _l	aquatic invertebrates	24 h
Trimethylchlorosilane	75-77-4	ErC50	>1.053 ^{mg} / _l	algae	72 h

Aquatic toxicity (chronic) of components

Name of sub- stance	CAS No	Endpoint Value Species		Exposure time	
Trimethylchlorosilane	75-77-4	EC50	6.670 ^{mg} / _l	microorganisms	3 h

12.2 Persistence and degradability

Theoretical Oxygen Demand (without nitrification): 0,01473 ^{mg}/_{mg}

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components

Name of substance CAS No		BCF	Log KOW	BOD5/COD
Trimethylchlorosilane 75-77-4			1,19 (25 °C)	

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



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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.

Properties of waste which render it hazardous

HP 3 flammable

HP 4 irritant - skin irritation and eye damage

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

ADR	UN 1993
IMDG-Code	UN 1993
ICAO-TI	UN 1993
UN proper shipping name	
ADR	FLAMMABLE LIQUID, N.O.S.
IMDG-Code	FLAMMABLE LIQUID, N.O.S.

14.2

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



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	ICAO-TI	Flammable liquid, n.o.s.
	Technical name	Trimethylchlorosilane
14.3	Transport hazard class(es)	
	ADR	3
	IMDG-Code	3
	ICAO-TI	3
14.4	Packing group	
	ADR	II
	IMDG-Code	II
	ICAO-TI	II
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	FLAMMABLE LIQUID, N.O.S.
Particulars in the transport document	UN1993, FLAMMABLE LIQUID, N.O.S., (Trimethyl- chlorosilane, solution), 3, II, (D/E), special provi- sion 640D
Classification code	F1
Danger label(s)	3
Special provisions (SP)	274, 601, 640D
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D/E
Hazard identification No	33

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



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International Maritime Dangerous Goods (Code (IMDG) - Additional information
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Particulars in the shipper's declaration	UN1993, FLAMMABLE LIQUID, N.O.S., (Trimethyl- chlorosilane, solution), 3, II, 7°C c.c.
Marine pollutant	-
Danger label(s)	3
Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-E, <u>S-E</u>
Stowage category	В
International Civil Aviation Organization (I	CAO-IATA/DGR) - Additional information
Proper shipping name	Flammable liquid, n.o.s.
Particulars in the shipper's declaration	UN1993, Flammable liquid, n.o.s., (Trimethyl- chlorosilane, solution), 3, II
Danger label(s)	3
Special provisions (SP)	A3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)					
Name of substance	Name acc. to inventory	CAS No	Restriction	No	
N,O-Bis(trimethylsilyl)-trifluoroacet- amide	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3	
Trimethylchlorosilane	flammable / pyrophoric		R40	40	
Trimethylchlorosilane	substances in tattoo inks and perman- ent make-up		R75	75	

Legend

R3

1. Shall not be used in:

ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 tricks and jokes,



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Legend

R40

games for one or more participants, or any article intended to be used as such, even with ornamental aspects,

- Articles not complying with paragraph 1 shall not be placed on the market.
 Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume,

Stan how by precision of the market in they contain a coloring agent, unless required for inscarreasons, or perturne, or both, if they:
— can be used as fuel in decorative oil lamps for supply to the general public, and
— present an aspiration hazard and are labelled with H304.
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation

(CEN). 5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following require-ments are met:

ments are met: (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage"; (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage'; (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.'; 1. Shall not be used, as substance or as instruces in aerosol dispensers where these parcel dispensers are intended

1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: - metallic glitter intended mainly for decoration,

- artificial snow and frost,
 'whoopee' cushions,
- silly string aerosols,
 imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,

 stink bombs. 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

'For professional users only'.

By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
 The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.



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Legen	
R75	1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such sub-
	stances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
	(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category
	1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration
	equal to or greater than 0,00005 % by weight;
	(b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant
	category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
	(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser cat-
	egory 1, 1A or 1B, the substance is present in the mixture in a concentration 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 skin corrosive cat-
	egory 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration 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), the substance is present in the
	mixture in a concentration equal to or greater than 0,00005 % by weight; (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g
	(Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the
	mixture in a concentration equal to or greater than 0,00005 % by weight:
	(i) "Rinse-off products";
	(ii) "Not to be used in products applied on mucous membranes"; (iii) "Not to be used in eye products";
	(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use
	preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in
	the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
	(h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concen- tration equal to or greater than the concentration limit specified for that substance in that Appendix.
	2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mix-
	ture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures com-
	monly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of
	making a mark or design on his or her body.
	3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix
	13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of
	paragraph 1 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 147-14-6),
	5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a sub-
	stance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such
	that it then falls within a different one of those points from the one within which it fell previously, and the date of ap- plication of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, para-
	graph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as
	taking effect on the date of application of that new or revised classification.
	6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing
	of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or
	such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry,
	that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the
	date falling 18 months after entry into force of the act by which that amendment was made.
	7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the
	mixture is marked with the following information: (a) the statement "Mixture for use in tattoos or permanent make-up";
	(b) a reference number to uniquely identify the batch;
	(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient
	námes pursuant to 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 name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means
	any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Im-
	purities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of
	this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredi-
	ent does not need to be marked in accordance with this Regulation; (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;
	(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentra-
	tion limit specified in Appendix 13:
	(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below
	the concentration limit specified in Appendix 13;
	(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 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.



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Legend

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 generate 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 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 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

2012/18/EU (Seveso III)						
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements		Notes		
01	O1 other hazards (EUH014) 100 500			58)		

Notation

58) Substances or mixtures with hazard statement EUH014

Deco-Paint Directive

VOC content	1 %
VOC content	9,7 ^g / _l

Industrial Emissions Directive (IED)

VOC content	1 %
VOC content	9,7 ^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

Water Framework Directive (WFD)

List of pollutants (WFD)					
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks	
Trimethylchlorosilane	Organohalogen compounds and substances which may form such compounds in the aquatic envir- onment		a)		

Legend a)

Indicative list of the main pollutants

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



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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	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)
VN	NCI	all ingredients are listed

Legend

Australian Inventory of Industrial Chemicals
List of Existing and New Chemical Substances (CSCL-ENCS)
Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
National Inventory of Chemical Substances
Korea Existing Chemicals Inventory
National Chemical Inventory
New Zealand Inventory of Chemicals
Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH registered substances
Taiwan Chemical Substance Inventory
Toxic Substance Control Act



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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)

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

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
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
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
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
ErC50	= EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization

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



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Abbr.	Descriptions of used abbreviations
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
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
SVHC	Substance of Very High Concern
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
H225	Highly flammable liquid and vapour.
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.