

Safety Data Sheet

SC1 SEALANT 100ML 6PZ



Safety Data Sheet dated 14/5/2021, version 4

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

- 1.1. Product identifier
Mixture identification:
Trade name: SC1 SEALANT 100ML 6PZ
Trade code: 79416
UFI: U990-M067-M00T-3872
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Nano hydrophobic sealant
- 1.3. Details of the supplier of the safety data sheet
Company:
FRA.BER S.R.L.
Via M.Merisi 40-46
24051 Antegnate (BG)
Italy
Tel.+390363905287
- Competent person responsible for the safety data sheet:
info@fra-ber.it
- 1.4. Emergency telephone number
Emergency telephone number of the company and/or of an authorised advisory centre:
Centro Antiveleni - Ospedale di Niguarda - Milano - phone: +390266101029
Fra-Ber s.r.l. via M.Merisi 40-46, 24051 Antegnate (BG) - Italy, phone: +390363905287
info@fra-ber.it

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)
- ⚠ Warning, Flam. Liq. 3, Flammable liquid and vapour.
 - ⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.
 - ⚠ Warning, STOT SE 3, May cause drowsiness or dizziness.
 - ⚠ Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.
Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.
- Adverse physicochemical, human health and environmental effects:
No other hazards
- 2.2. Label elements
Hazard pictograms:



Danger

Hazard statements:

- H226 Flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H304 May be fatal if swallowed and enters airways.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read carefully and follow all instructions.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

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smoking.

P271 Use only outdoors or in a well-ventilated area.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.

P331 Do NOT induce vomiting.

P370+P378 In case of fire, use water to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

PACK1 The packing must be featured by a safety lock for children.

PACK2 The packing must have tactile indications of danger for blind people.

Contains

ISOPROPYL ALCOHOL

ISODODECANE

Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

2-metilpropan-1-olo; isobutanolo

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

Product contents:

Aliphatic hydrocarbons

5 - 15 %

The product also contains: Perfumes

2.3. Other hazards

PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$:

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification	Additional info
>= 70% - < 80%	ISOPROPYL ALCOHOL	CAS: 67-63-0 EC: 200-661-7 REACH No.: 01-2119457558-25	<p>⚠ 2.6/2 Flam. Liq. 2 H225</p> <p>⚠ 3.3/2 Eye Irrit. 2 H319</p> <p>⚠ 3.8/3 STOT SE 3 H336</p>	REACH n° : Polymer: N.A.
>= 5% - < 15%	ISODODECANE	CAS: 13475-82-6 EC: 236-757-0 REACH No.: 01-2119490725-29	<p>⚠ 2.6/3 Flam. Liq. 3 H226</p> <p>⚠ 3.10/1 Asp. Tox. 1 H304</p> <p>4.1/C4 Aquatic Chronic 4 H413</p>	REACH n° : Polymer: N.A.
>= 2% - < 5%	Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics	CAS: 65072-03-9 EC: 923-037-2 REACH No.: 01-2119471991-29	<p>⚠ 2.6/3 Flam. Liq. 3 H226</p> <p>⚠ 3.10/1 Asp. Tox. 1 H304</p> <p>⚠ 4.1/C2 Aquatic Chronic 2 H411</p>	REACH n° : Polymer: N.A.
>= 2% - <	Aminofunctional		⚠ 3.2/2 Skin Irrit. 2	REACH n° :

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5%	fluid			H315 ◆ 3.3/2 Eye Irrit. 2 H319	Polymer: Yes
>= 2% - < 5%	2-metilpropan-1-olo; isobutanolo	Index number: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0 REACH No.: 01-2119484609-23		◆ 2.6/3 Flam. Liq. 3 H226 ◆ 3.8/3 STOT SE 3 H336 ◆ 3.8/3 STOT SE 3 H335 ◆ 3.2/2 Skin Irrit. 2 H315 ◆ 3.3/1 Eye Dam. 1 H318	REACH n° : Polymer: N.A.
< 2%	CYCLOPENTASILOXANE	CAS: 541-02-6 EC: 208-764-9 REACH No.: 01-2119511367-43		Substance with a Union workplace exposure limit.	REACH n° : Polymer: N.A.
< 2%	CYCLOMETHICONE	Index number: 014-018-00-1 CAS: 556-67-2 EC: 209-136-7		◆ 2.6/3 Flam. Liq. 3 H226 ◆ 3.7/2 Repr. 2 H361f 4.1/C4 Aquatic Chronic 4 H413	REACH n° : Polymer: N.A.

SVHC, PBT, vPvB, endocrine disruptor substances:

< 2% CYCLOPENTASILOXANE

REACH No.: 01-2119511367-43, CAS: 541-02-6, EC: 208-764-9

vPvB, SVHC

< 2% CYCLOMETHICONE

Index number: 014-018-00-1, CAS: 556-67-2, EC: 209-136-7

PBT, vPvB, SVHC

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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Treatment:
None

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
Suitable extinguishing media:
In case of fire, use water to extinguish.
Extinguishing media which must not be used for safety reasons:
None in particular.
- 5.2. Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
- 5.3. Advice for firefighters
Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Remove all sources of ignition.
Remove persons to safety.
See protective measures under point 7 and 8.
- 6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
Wash with plenty of water.
- 6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
- 7.2. Conditions for safe storage, including any incompatibilities
Always keep in a well ventilated place.
Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated.
- 7.3. Specific end use(s)

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None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ISOPROPYL ALCOHOL - CAS: 67-63-0

14 - TWA(8h): 492 mg/m³, 200 ppm - STEL(15 min): 983 mg/m³, 400 ppm

ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Notes: A4, BEI - Eye and URT irr, CNS impair

Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics - CAS: 65072-03-9

TLV-TWA - TWA: 1200 mg/m³, 196 ppm

2-metilpropan-1-olo; isobutanolo - CAS: 78-83-1

ACGIH - TWA(8h): 50 ppm - Notes: Skin and eye irr

CYCLOPENTASILOXANE - CAS: 541-02-6

EU - TWA(8h): 10 ppm

CYCLOMETHICONE - CAS: 556-67-2

EU - TWA: 120 mg/m³, 10 ppm

DNEL Exposure Limit Values

ISOPROPYL ALCOHOL - CAS: 67-63-0

Worker Industry: 888 mg/kg - Consumer: 319 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

Worker Industry: 500 mg/kg - Consumer: 89 mg/kg - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

CYCLOPENTASILOXANE - CAS: 541-02-6

Worker Industry: 97.3 03 - Consumer: 17.3 03 - Exposure: Human Inhalation - Frequency:

Short Term, systemic effects

Worker Industry: 24.2 03 - Consumer: 4.3 - Exposure: Human Inhalation - Frequency:

Short Term, local effects

Worker Industry: 97.3 03 - Consumer: 17.3 03 - Exposure: Human Inhalation - Frequency:

Long Term, systemic effects

Consumer: 4.3 03 - Exposure: Human Inhalation - Frequency: Short Term, local effects

Consumer: 5 04 - Exposure: Human Oral - Frequency: Long Term, systemic effects

CYCLOMETHICONE - CAS: 556-67-2

Worker Professional: 73 03 - Exposure: Human Inhalation - Frequency: Short Term (acute)

Worker Professional: 73 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 73 03 - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 13 03 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 13 03 - Exposure: Human Inhalation - Frequency: Short Term (acute)

Consumer: 13 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 13 03 - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 3.7 04 - Exposure: Human Oral - Frequency: Short Term, systemic effects

Consumer: 3.7 04 - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

ISOPROPYL ALCOHOL - CAS: 67-63-0

Target: Fresh Water - Value: 140.9 mg/l

Target: Marine water - Value: 140.9 mg/l

Target: Microorganisms in sewage treatments - Value: 2.251 mg/l

Target: Freshwater sediments - Value: 552 mg/kg

Target: Marine water sediments - Value: 552 mg/kg

Target: Soil (agricultural) - Value: 28 mg/kg

CYCLOPENTASILOXANE - CAS: 541-02-6

Target: Fresh Water - Value: 0.0012 mg/l

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Target: Marine water - Value: 0.00012 mg/l
 Target: Freshwater sediments - Value: 2.4 mg/kg
 Target: Marine water sediments - Value: 0.24 mg/kg
 Target: Soil - Value: 1.1 mg/kg
 Target: Purification plant - Value: 10 mg/l

CYCLOMETHICONE - CAS: 556-67-2

Target: Fresh Water - Value: 0.00044 mg/l
 Target: Marine water - Value: 0.000044 mg/l
 Target: Freshwater sediments - Value: 0.64 mg/kg
 Target: Marine water sediments - Value: 0.064 mg/kg
 Target: Soil (agricultural) - Value: 0.13 mg/kg
 Target: Purification plant - Value: 10 mg/l

8.2. Exposure controls

Eye protection:

Eye glasses.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. rubber, PVC or viton.

Protection for hands:

Butyl caoutchouc (butyl rubber).

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Liquid	--	--
Colour:	Transparent	--	--
Odour:	characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	Flam. Liq. 3, H226	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	>23 °C	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--

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pH:	N.A.	--	--
Kinematic viscosity:	<= 14 mm ² /sec (40 °C)	--	--
Solubility in water:	soluble	--	--
Solubility in oil:	Partially soluble	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	0.8 g/cm ³ +/- 0,01 g/cm ³	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Viscosity:	3.05 mm ² /s	--	--
Storage temperature:	5°C < x < 20°C	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological information of the product:

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a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

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Based on available data, the classification criteria are not met

c) serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

The product is classified: STOT SE 3 H336

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

The product is classified: Asp. Tox. 1 H304

Toxicological information of the main substances found in the product:

ISOPROPYL ALCOHOL - CAS: 67-63-0

a:

Test: LD50 - Route: Oral - Species: Rat 4710 mg/kg

Test: LD50 - Route: Skin - Species: Rat 12800 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 72.6 mg/l - Duration: 4h

ISODODECANE - CAS: 13475-82-6

a:

Test: LC50 - Route: Inhalation - Species: Rat > 4951 mg/m³ - Duration: 4h - Source: OCSE 403

Test: LD50 - Route: Oral - Species: Rat > 5000 01 - Source: OCSE 401

Test: LD50 - Route: Skin - Species: Rabbit > 3160 01 - Source: OCSE 402

f) carcinogenicity:

Test: EC55 - Species: Rat > 2200 mg/m³ - Source: OCSE 453

g) reproductive toxicity:

Species: Rat > 1000 mg/kg bw/day - Source: OCSE 414

Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics - CAS: 65072-03-9

a:

Test: LD50 - Route: Oral - Species: Rat > 5000 01 - Source: READ ACROSS

Test: LD50 - Route: Skin - Species: Rabbit > 5000 01 - Source: READ ACROSS

Test: EC54 - Route: Inhalation - Species: Rat > 5000 mg/m³ - Source: READ ACROSS

2-metilpropan-1-olo; isobutanolo - CAS: 78-83-1

a:

Test: LD50 - Route: Oral - Species: Rat 2460 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 2460 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 19.2 mg/l - Duration: 4h

CYCLOPENTASILOXANE - CAS: 541-02-6

a:

Test: LD50 - Route: Oral - Species: Rat > 24.134 mg/kg

Test: EC54 - Route: Inhalation - Species: Rat = 8.67 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

b:

Notes: Non irritante

c) serious eye damage/irritation:

Notes: Non irritante

f) carcinogenicity:

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Test: NOAEC - Route: Inhalation - Species: Rat > 2.42 mg/l
g) reproductive toxicity:

Test: EC55 - Route: Inhalation - Species: Rat > 2.496 mg/l
CYCLOMETHICONE - CAS: 556-67-2

a:

Test: LD50 - Route: Oral - Species: Rat > 4.800 mg/kg
Test: EC54 - Route: Inhalation - Species: Rat = 2975 Ppm - Duration: 4h
Test: LD50 - Route: Skin - Species: Rabbit > 2.5 ml/kg
Test: EC54 - Route: Inhalation - Species: Rat > 36 mg/l

g) reproductive toxicity:

Source: SOSPETTO DI NUOCERE ALLA FERTILITA'

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration \geq 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

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The product is classified: Aquatic Chronic 3 - H412

ISOPROPYL ALCOHOL - CAS: 67-63-0

a) Aquatic acute toxicity:

Endpoint: LC50 10.000 mg/l - Duration h: 96

ISODODECANE - CAS: 13475-82-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 24 - Notes: OCSE 203

Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 24 - Notes: OCSE 202

Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics - CAS: 65072-03-9

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1000 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 1000 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 1000 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 0.02 mg/l - Notes: 21 GIORNI

2-metilpropan-1-olo; isobutanolo - CAS: 78-83-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1430 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 1439 mg/l - Duration h: 48

CYCLOPENTASILOXANE - CAS: 541-02-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia > 0.0029 mg/l - Duration h: 48 - Notes: Metodo: OECD TG 202

Endpoint: EC50 - Species: Algae > 0.012 mg/l - Duration h: 96 - Notes: Metodo: OECD TG 201

Endpoint: NOEC - Species: Algae 0.012 mg/l - Duration h: 96 - Notes: Metodo: OECD TG 201

Endpoint: LC50 - Species: Fish > 0.016 mg/l - Duration h: 96 - Notes: Metodo: OECD 204

Endpoint: NOEC - Species: Fish > 0.016 mg/l - Notes: Metodo: OECD 204

Endpoint: NOEC - Species: Fish > 0.017 mg/l - Notes: Metodo: OECD TG 204

Endpoint: NOEC - Species: Daphnia 0.0029 mg/l - Duration h: 48 - Notes: Metodo: OECD TG 202

Endpoint: NOEC - Species: Lombrichi FRAB2 76 mg/kg

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish 0.014 mg/l - Notes: Metodo: OECD TG 210

Endpoint: NOEC - Species: Daphnia > 0.015 mg/l - Duration h: 504 - Notes: Metodo: OECD TG 211

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CYCLOMETHICONE - CAS: 556-67-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 0.0063 mg/l - Duration h: 336 - CONSID06

Endpoint: EC50 - Species: Daphnia > 0.0091 mg/l - Duration h: 96 - CONSID06

Endpoint: EC50 - Species: Algae > 0.022 mg/l - Duration h: 72 - CONSID06

Endpoint: NOEC - Species: Fish > 0.0044 mg/l - CONSID06

Endpoint: NOEC - Species: Daphnia > 0.0079 mg/l - CONSID06

12.2. Persistence and degradability

None

ISOPROPYL ALCOHOL - CAS: 67-63-0

Biodegradability: Readily biodegradable

ISODODECANE - CAS: 13475-82-6

Biodegradability: Easily biodegradable - Duration: 28D - %: 74 - Notes: OCSE 306

CYCLOPENTASILOXANE - CAS: 541-02-6

Biodegradability: Non-readily biodegradable - Duration: 28D - %: 0.14 - Notes: %

CYCLOMETHICONE - CAS: 556-67-2

Biodegradability: Non-readily biodegradable

12.3. Bioaccumulative potential

ISOPROPYL ALCOHOL - CAS: 67-63-0

Test: Kow - Partition coefficient 0.05

CYCLOPENTASILOXANE - CAS: 541-02-6

Bioaccumulation: Bioaccumulative - Test: BCF - Bioconcentration factor 16200 - Notes:

Metodo: OECD 305

12.4. Mobility in soil

CYCLOPENTASILOXANE - CAS: 541-02-6

Mobility in soil: Not mobile

12.5. Results of PBT and vPvB assessment

PBT Substances:

< 2% CYCLOMETHICONE - CAS: 556-67-2

vPvB Substances:

< 2% CYCLOPENTASILOXANE - CAS: 541-02-6

< 2% CYCLOMETHICONE - CAS: 556-67-2

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration \geq 0.1%

12.7. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information



14.1. UN number or ID number

ADR-UN Number: 1993

IATA-UN Number: 1993

IMDG-UN Number: 1993

14.2. UN proper shipping name

ADR-Shipping Name: FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL, ISODODECANE)

IATA-Shipping Name: FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL,

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ISODODECANE)
IMDG-Shipping Name: FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL,
ISODODECANE)

- 14.3. Transport hazard class(es)
ADR-Class: 3
ADR - Hazard identification number: 30
IATA-Class: 3
IATA-Label: 3
IMDG-Class: 3
- 14.4. Packing group
ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III
- 14.5. Environmental hazards
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
IMDG-Ems: F-E , S-E
- 14.6. Special precautions for user
ADR-Subsidiary hazards: -
ADR-S.P.: 274 601
ADR-Transport category (Tunnel restriction code): 3 (D/E)
IATA-Passenger Aircraft: 355
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 366
IATA-S.P.: A3
IATA-ERG: 3L
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category A
IMDG-Segregation: -
- 14.7. Maritime transport in bulk according to IMO instruments
No

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Restrictions related to the product or the substances contained according to Annex XVII Regulation
(EC) 1907/2006 (REACH) and subsequent modifications:
Restrictions related to the product:
Restriction 3

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Restriction 40

Restrictions related to the substances contained:

Restriction 70

Volatile Organic compounds - VOCs = 81.16 %

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.02

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

SVHC Substances:

Substances in candidate list (Art. 59 Reg. 1907/2006, REACH):

CYCLOPENTASILOXANE

vPvB

CYCLOMETHICONE

PBT, vPvB

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H361f Suspected of damaging the unborn child.

H413 May cause long lasting harmful effects to aquatic life.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H318 Causes serious eye damage.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3

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Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3
Aquatic Chronic 4	4.1/C4	Chronic (long term) aquatic hazard, category 4

This safety data sheet has been completely updated in compliance to Regulation 2020/878. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 3, H226	On basis of test data
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method
Asp. Tox. 1, H304	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate
ATEmix: Acute toxicity Estimate (Mixtures)
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
KSt: Explosion coefficient.

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LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.