

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: 2005 Stone Chip Spray, Gray

Creation date: 25.10.2023, Revision: 03.04.2024, Version: 2.1

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

1.1 Product identifier

Product name

2005 Stone Chip Spray, Gray

UFI:

1DU3-WS4C-F50S-4F83



<https://my.chemius.net/p/A01nBF/en/pd/en>

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

Relevant identified uses

Sealant. An agent for protection against corrosion.

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier

SILCO d.o.o.
Sentrupert 5a
3303 Gomilsko, Slovenia
+386 3 703 3180
msds@silco.si

1.4 Emergency Telephone Number

Emergency

112

Supplier

112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

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

Aerosol 1; H222 + H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.

Skin Irrit. 2; H315 Causes skin irritation.

Eye Irrit. 2; H319 Causes serious eye irritation.

STOT SE 3; H336 May cause drowsiness or dizziness.

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silco[®]

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Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

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



Signal word: DANGER

H222 + H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273 Avoid release to the environment.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with national regulation.

Contains:

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

2.3 Other hazards

PBT/vPvB

No information.

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Additional information

No information.

Section 3: Composition/information on ingredients

3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

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Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits
dimethyl ether	115-10-6 204-065-8 603-019-00-8 01-2119472128-37	25-30	Flam. Gas 1; H220 Press. Gas; H280	/
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0 927-510-4 - 01-2119475515-33	25-30	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	/
ethyl methyl ketone	78-93-3 201-159-0 606-002-00-3 01-2119457290-43	5-10	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	/
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	- 920-750-0 - 01-2119473851-33	2.5-5	Flam. Liq. 2; H225 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411 EUH066	/
ethyl acetate	141-78-6 205-500-4 607-022-00-5	2.5-5	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	/
cyclohexane	110-82-7 203-806-2 601-017-00-1	2.5-5	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/

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Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	- 921-024-6 - 01-2119475514-35	1-2.5	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	/
hydrocarbons, C9, aromatics	64742-95-6 918-668-5 - 01-2119455851-35	1-2.5	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411 EUH066	/
n-hexane	110-54-3 203-777-6 601-037-00-0	0.1-1	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361f STOT RE 2; H373 Aquatic Chronic 2; H411	STOT RE 2; H373; C ≥ 5%

Notes for substances

- P** The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes.

Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

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- U** When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:
- Press. Gas (Comp.)
 - Press. Gas (Liq.)
 - Press. Gas (Ref. Liq.)
 - Press. Gas (Diss.)
- Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).
-

Section 4: First aid measures

4.1 Description of first aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

Following inhalation

Remove patient to fresh air - move out of dangerous area. In case of unconsciousness bring patient into stable side position and seek medical attention. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Keep at rest in a position comfortable for breathing. Seek medical help immediately.

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. Consult a physician.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Immediately consult a doctor. Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Vapours may cause drowsiness and dizziness.

Following skin contact

Itching, redness, pain.

Following eye contact

Redness, tearing, pain.

Following ingestion

Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area. Aspiration into the lungs causes coughing, shortness of breath and may lead to chemical pneumonia.

4.3 Indication of any immediate medical attention and special treatment needed

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No information.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

No information.

5.3 Advice for firefighters

Protective actions

Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information

No information.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

No information.

Precautionary measures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking!

Emergency procedures

No information.

For emergency responders

No information.

6.2 Environmental precautions

In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

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No information.

For cleaning up

No information.

Other information

No information.

6.4 Reference to other sections

See also sections 8 and 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Take precautionary measures against static discharges.

Measures to prevent aerosol and dust generation

No information.

Measures to protect the environment

No information.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs.

Packaging materials

No information.

Requirements for storage rooms and vessels

No information.

Storage temperature

No information.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

No information.

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Industrial sector specific solutions

No information.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

Name	mg/m ³	ml/m ³	Short-term value mg/m ³	Short-term value ml/m ³	Remark	Biological Tolerance Values
Butan-2-one (methyl ethyl ketone) (78-93-3)	600	200	899	300	Sk, BMGV	70 µmol butan-2-one/L in urine - Post shift
n-Hexane (110-54-3)	72	20	/	/	/	/
Cyclohexane (110-82-7)	350	100	1050	300	/	/
Dimethyl ether (115-10-6)	766	400	958	500	/	/
Ethyl acetate (141-78-6)	734	200	1468	400	/	/

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

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Name	Type	Exposure route	exp. frequency	Remark	value
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Worker	dermal	long term systemic effects	/	773 mg/kg
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Worker	inhalation	long term systemic effects	/	2035 mg/m ³
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Consumer	dermal	long term systemic effects	/	699 mg/kg
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Consumer	inhalation	long term systemic effects	/	608 mg/m ³
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Consumer	oral	long term systemic effects	/	699 mg/kg
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Worker	inhalation	long term systemic effects	/	2035 mg/m ³
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Worker	dermal	long term systemic effects	/	773 mg/kg bw/day
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Consumer	inhalation	long term systemic effects	/	608 mg/m ³

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hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Consumer	dermal	long term systemic effects	/	699 mg/kg bw/day
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Consumer	oral	long term systemic effects	/	699 mg/kg bw/day
ethyl methyl ketone	Worker	inhalation	long term systemic effects	/	600 mg/m ³
ethyl methyl ketone	Worker	dermal	long term systemic effects	/	1161 mg/kg bw/day
ethyl methyl ketone	Consumer	inhalation	long term systemic effects	/	106 mg/m ³
ethyl methyl ketone	Consumer	dermal	long term systemic effects	/	412 mg/kg bw/day
ethyl methyl ketone	Consumer	oral	long term systemic effects	/	31 mg/kg bw/day
ethyl acetate	Worker	inhalation	long term systemic effects	/	734 mg/m ³
ethyl acetate	Worker	inhalation	short term systemic effects	/	1468 mg/m ³
ethyl acetate	Worker	inhalation	long term local effects	/	734 mg/m ³
ethyl acetate	Worker	inhalation	short term local effects	/	1468 mg/m ³
ethyl acetate	Worker	dermal	long term systemic effects	/	63 mg/kg bw/day
ethyl acetate	Consumer	inhalation	long term systemic effects	/	367 mg/m ³

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Name	Type	Exposure route	exp. frequency	Remark	value
ethyl acetate	Consumer	inhalation	short term systemic effects	/	734 mg/m ³
ethyl acetate	Consumer	inhalation	long term local effects	/	367 mg/m ³
ethyl acetate	Consumer	inhalation	short term local effects	/	734 mg/m ³
ethyl acetate	Consumer	dermal	long term systemic effects	/	37 mg/kg bw/day
ethyl acetate	Consumer	oral	long term systemic effects	/	4.5 mg/kg bw/day
dimethyl ether	Worker	inhalation	long term systemic effects	/	1894 mg/m ³
dimethyl ether	Consumer	inhalation	long term systemic effects	/	471 mg/m ³

PNEC values

For product

No information.

For components

Name	Exposure route	Remark	value
ethyl methyl ketone	fresh water	/	55.8 mg/L
ethyl methyl ketone	water, intermittent release	/	55.8 mg/L
ethyl methyl ketone	marine water	/	55.8 mg/L
ethyl methyl ketone	water treatment plant	/	709 mg/L
ethyl methyl ketone	fresh water sediment	dry weight	284.74 mg/kg
ethyl methyl ketone	marine water sediment	dry weight	284.7 mg/kg
ethyl methyl ketone	soil	dry weight	22.5 mg/kg
ethyl methyl ketone	secondary poisoning	food	1000 mg/kg
ethyl acetate	fresh water	/	0.24 mg/L
ethyl acetate	water, intermittent release	/	1.65 mg/L
ethyl acetate	marine water	/	0.024 mg/L
ethyl acetate	water treatment plant	/	650 mg/L
ethyl acetate	fresh water sediment	dry weight	1.15 mg/kg
ethyl acetate	marine water sediment	dry weight	0.115 mg/kg

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Name	Exposure route	Remark	value
ethyl acetate	soil	dry weight	0.148 mg/kg
ethyl acetate	secondary poisoning	food	0.2 g/kg
dimethyl ether	fresh water	/	0.155 mg/L
dimethyl ether	water, intermittent release	/	1.549 mg/L
dimethyl ether	marine water	/	0.016 mg/L
dimethyl ether	water treatment plant	/	160 mg/L
dimethyl ether	fresh water sediment	dry weight	0.681 mg/kg
dimethyl ether	marine water sediment	dry weight	0.069 mg/kg
dimethyl ether	soil	dry weight	0.045 mg/kg

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

Personal protective equipment

Eye and face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022).

Hand protection

Protective gloves (EN ISO 374-1:2016). In case of prolonged exposure, wear protective gloves (BS EN ISO 374).

Appropriate materials

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345:2022).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

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Technical measures to prevent exposure
No information.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Important health, safety and environmental information

Physical state	gas
Shape	aerosol
Colour	gray
Odour	No information.
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability (solid, gas)	No information.
Explosion limits (vol%)	3.3 – 26.2 % v/v
Flash point	not applicable
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	substance/mixture is non-soluble (in water) Does not apply
Viscosity	No information.
Solubility	No information.
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	60 hPa at 20 °C 306 hPa at 50 °C
Density	0 g/cm ³
Relative vapour/gas density	No information.
Particle characteristics	No information.

9.2 Other information

Information with regard to physical hazard classes

No information.

Other safety characteristics

Weight organic solvents	632 g/l (VOC) 76 % (VOC)
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Solids content

0 %

0 vol %

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

No information.

10.4 Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

10.5 Incompatible materials

No information.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

Section 11: Toxicological information

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

(a) Acute toxicity

For components

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Name	Exposure route	Type	Species	Time	value	Method	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	oral	LD ₅₀	rat	/	5840 mg/kg	/	/
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	dermal	LD ₅₀	rat	/	2920 mg/kg	/	/
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	inhalation	LC ₅₀	rat	4 h	25.2 mg/l	/	vapour
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	oral	LD ₅₀	rat (male/female)	/	> 5840 mg/kg bw	Equivalent to OECD 401	experimental value
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	dermal	LD ₅₀	rat (male/female)	24 h	> 4 ml/kg bw	/	experimental value
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	dermal	LD ₅₀	rat (male/female)	24 h	> 2920 mg/kg bw	/	experimental value

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Name	Exposure route	Type	Species	Time	value	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	inhalation (vapours)	LC ₅₀	rat (male/female)	4 h	> 23.2 mg/l air	Equivalent to OECD 403	experimental value
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	dermal	LD ₅₀	rat	24 h	> 2920 mg/kg	/	/
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	inhalation (vapors)	LC ₅₀	rat	24 h	> 23300 mg/m ³	/	/
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	oral	LD ₅₀	rat	/	> 5840 mg/kg	OECD 401	/
hydrocarbons, C9, aromatic s	oral	LD ₅₀	rat	/	3592 mg/kg	/	/
hydrocarbons, C9, aromatic s	dermal	LD ₅₀	rabbit	/	3160 mg/kg	/	/
ethyl methyl ketone	oral	LD ₅₀	rat	/	2737 mg/kg	/	/
ethyl methyl ketone	dermal	LD ₅₀	rabbit	/	6480 mg/kg	/	/
ethyl methyl ketone	inhalation	LC ₅₀	rat	4 h	23.5 mg/l	/	vapour

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Name	Exposure route	Type	Species	Time	value	Method	Remark
cyclohexane	dermal	LD ₅₀	rat	/	> 2000 mg/kg	/	/
cyclohexane	inhalation (vapours)	LC ₅₀	rat	/	> 32.9 mg/L/4h	/	/
cyclohexane	oral	LD ₅₀	rat	/	6200 mg/kg	/	/
ethyl acetate	oral	LD ₅₀	rabbit	/	4935 mg/kg	/	/
ethyl acetate	inhalation	LC ₅₀	rat	4 h	1600 mg/l	/	/
dimethyl ether	inhalation	LC ₅₀	rat	4 h	308 mg/m ³	/	/

(b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	rabbit	/	Non-irritant.	OECD 404	24, 48, 72 h; experimental value
ethyl methyl ketone	/	/	Irritating.	/	/
cyclohexane	rabbit	/	Mild irritating.	/	/

(c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	result	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	/	rabbit	/	Non-irritant.	/	Single treatment, Experimental value
ethyl methyl ketone	/	/	/	Irritating.	/	/
cyclohexane	/	rabbit	/	Mild irritating.	/	/

(d) Respiratory or skin sensitisation

For components

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Name	Exposure route	Species	Time	result	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	dermal	Guinea pig (male/female)	/	Non sensitising.	Equivalent to OECD 406	experimental value

(e) (Germ cell) mutagenicity

For components

Name	Type	Species	Time	result	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	in-vitro mutagenicity	Bacteria (<i>S. typhimurium</i>)	/	Negative with metabolic activation, negative without metabolic activation.	/	experimental value
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	in-vivo mutagenicity	mouse (male), bone marrow	/	Negative.	Equivalent to OECD 474	experimental value
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Genotoxicity	/	/	Negative.	/	/
cyclohexane	in-vitro mutagenicity	/	/	Not mutagenic.	/	/
cyclohexane	in-vivo mutagenicity	/	/	Some positive data exist, but the data are not sufficient for classification	/	/

(f) Carcinogenicity

For components

Name	Exposure route	Type	Species	Time	value	result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	/	/	/	/	/	Not carcinogenic.	/	/

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(g) Reproductive toxicity

For components

Name	Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Developmental toxicity	NOAEL	rat (foetuses)	10 days	31680 mg/m ³ (air)	No effect	Equivalent to OECD 414	read across
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Maternal toxicity	NOAEL	rat	10 days	3168 mg/m ³ (air)	No effect	Equivalent to OECD 414	read across
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Maternal toxicity	LOAEL	rat	10 days	10560 mg/m ³ (air)	Translation required (211884)	Equivalent to OECD 414	read across
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Effect on fertility	NOAEL	rat (male/female)	13 weeks	31680 mg/m ³ (air)	No effect	Equivalent to OECD 416	6h/day, 5 days/week, read-across

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Name	Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Reproductive toxicity	/	rat	/	/	Negative.	/	/
cyclohexane	inhalation	NOAEL	rat (male/female)	/	24 mg/L	The chemical is not classified as toxic for reproduction.	/	two-generation study
cyclohexane	inhalation	NOAEL	rat	/	6.9 mg/L	Did not cause developmental toxicity.	/	two-generation study
n-hexane	Reproductive toxicity	-	/	/	/	Suspected of damaging fertility.	/	/

Summary of evaluation of the CMR properties

No information.

(h) STOT-single exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Rem
cyclohexane	inhalation	NOAEL	human and animal	/	/	central nervous system	/	May cause drowsiness or dizziness.	/	/
cyclohexane	inhalation	NOAEL	human and animal	/	/	Respiratory tract	/	Some positive data exist, but the data are not sufficient for classification.	/	/

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Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remarks
cyclohexane	oral	NOAEL	/	/	/	central nervous system	/	May cause drowsiness or dizziness.	/	exp. judgment

(i) STOT-repeated exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remarks
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	inhalation (vapours)	NOAEC	rat (male)	13 weeks	/	blood	5800 mg/m ³ air	No effect.	Equivalent to OECD 413	Training required (68%)
cyclohexane	inhalation	NOAEL	rat	90 days	/	liver	24 mg/L	Not classified.	/	/
cyclohexane	inhalation	NOAEL	rat	90 days	/	Auditory organs	1.7 mg/L	Not classified.	/	/
cyclohexane	inhalation	NOAEL	rabbit	10 weeks	/	Kidney, bladder	2.7 mg/L	Not classified.	/	/
cyclohexane	inhalation	NOAEL	mouse	14 weeks	/	hematopoietic organs	24 mg/L	Not classified.	/	/
cyclohexane	inhalation	NOAEL	rat	30 weeks	/	peripheral nervous system	8.6 mg/L	Not classified.	/	/

(j) Aspiration hazard

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For components

Name	result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	May be fatal if swallowed and enters airways.	/	/
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Aspiration into the lungs can cause lung damage.	/	/
cyclohexane	ASPIRATION HAZARD	/	/

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Other information

No information.

Section 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	LC ₅₀	11.4 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD Guideline 203 (Fish, Acute Toxicity Test)	/
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	EC ₅₀	3 mg/L	48 h	daphnia	<i>Daphnia magna</i>	202 (Daphnia sp. Acute Immobilisation Test)	/

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Name	Type	value	Exposure time	Species	organism	Method	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	EC ₅₀	30 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD Guideline 201 (Alga, Growth Inhibition Test)	/
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	LC ₅₀	3 - 10 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD 203	Semi-static system, Fresh water, Experimental value GLP
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	EC ₅₀	4.6 - 10 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	Static system, Fresh water, Experimental value GLP
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	EL ₅₀	10 - 30 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	Static system, Fresh water, Experimental value GLP
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	NOELR	10 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	Static system, Fresh water, Experimental value GLP
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	ErL ₅₀	10 - 30 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	/

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Name	Type	value	Exposure time	Species	organism	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	EbL50	10 - 30 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	/
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	EL ₅₀	> 13.4 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	NOELR	6.3 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	/
hydrocarbons, C9, aromatic s	EC ₅₀	3.2 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
hydrocarbons, C9, aromatic s	EC ₅₀	9.2 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
hydrocarbons, C9, aromatic s	EC ₅₀	2.75 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	/
ethyl methyl ketone	EC ₅₀	5091 mg/L	48 h	crustacea	/	/	/
ethyl methyl ketone	LC ₅₀	3220 mg/L	96 h	fish	/	/	/
ethyl methyl ketone	EC ₅₀	1150 mg/L	/	bacteria	/	/	/
dimethyl ether	EC ₅₀	> 4000 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/

Chronic (long-term) toxicity
For components

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Name	Type	value	Exposure time	Species	organism	Method	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	NOEC	30 mg/l	21 days	Magna Daphnia	<i>Daphnia magna</i>	OECD 211	/
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	NOELR	0.574 mg/l	28 days	fish	<i>Oncorhynchus mykiss</i>	/	Fresh water; QSAR; Growth rate
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	NOEC	0.17 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	static, fresh water, experimental value GLP
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	NOELR	1 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	/
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	NOELR	1.53 mg/l	28 days	fish	<i>Oncorhynchus mykiss</i>	/	/

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

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Name	Type	Rate	Time	Evaluation	Method	Remark
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	aerobic	%	/	readily biodegradable	/	/
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Biodegradation in water	98 %	28 days	/	OECD 301 F: Manometric Respirometry Test	GLP, read-across
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	biodegradability	98 %	28 days	readily biodegradable	OECD 301F	/

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

For components

Name	value	Temperature °C	pH	Concentration	Method
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	4 - 5.7	/	/	/	/

Bioconcentration factor (BCF)

No information.

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

For components

Name	Air	Water	Soil	Sediment	(Aquatic) Biota	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	14.6	3.4	26.4	55.6	/	Mackay level 3	Calculated value

Surface tension

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No information.

Adsorption/Desorption

No information.

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

12.7 Other adverse effects

No information.

12.8 Additional information

For components

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Ground water pollutant.

ethyl methyl ketone

Very volatile, partially soluble in water, absorption into the soil is likely to be readily biodegradable, is not bioaccumulative.

Section 13: Disposal considerations

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

Section 14: Transport information









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silco[®]

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ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2 UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS
14.3 Transport hazard class(es)			
2	2	2	2
			
			
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards			
YES	Marine pollutant	YES	YES
14.6 Special precautions for user			

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ADR/RID	IMDG	IATA	ADN
Limited quantities 1 L Special provisions 190, 327, 344, 625 Packing Instructions P207, LP200 Special packing provisions PP87, RR6, L2 Transport category 2 Tunnel restriction code (D) Classification code 5F	Limited quantities 1 L EmS F-D, S-U Flash point °C	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y203 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 30 kg G Packing Instructions (Pkg Inst) 203 Maximum Net Quantity/Package (Max Net Qty/Pkg) 25 kg Special provisions A145, A167, A802	Limited quantities 1 L
14.7 Maritime transport in bulk according to IMO instruments	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

Section 15: Regulatory information

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

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

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

EU limit values and category: B(e) 840 g/l. VOC Content: 632 g/l

Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

Special instructions

No information.

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15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16: Other information

Indication of changes

9.1 Information on basic physical and chemical properties 14. Transport information

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW - see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient

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LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.