

Safety Data Sheet

according to UK REACH Regulation

GYEON Q² Rim EVO

Revision date: 05.12.2023

Product code: G0044

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

1.1. Product identifier

GYEON Q² Rim EVO

Further trade names

GYEON Q² Rim

UFI:

JXV7-26CS-800N-MHEQ

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

Use of the substance/mixture

Vehicle protective product - ceramic coating designed for rims.
Enthusiasts and professional use (End consumer)

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name: Gyeon Technology
Street: 1405-538, 212, Gasan digital 1-ro
Place: Geumcheon-gu, Seoul, Korea
Telephone: +82-10-4339-3599
Contact person: Robert Gyeon
E-mail: sales@gyeon.co

Supplier

Company name: Gyeon UK Ltd
Street: Commercial Quay, 84 Commercial Stree
Place: GB-EH6 6LX Edinburgh
E-mail: hello@gyeonquartz.uk
Contact person: Richard Cooper Telephone: +44 (0)7984 056790

1.4. Emergency telephone number:

National Poisons Information Service - 03448920111. 'For healthcare professionals only'.

Further Information

Safety Data Sheet according to UK-REACH Regulation

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 2; H225
Skin Irrit. 2; H315
STOT RE 2; H373
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

stoddard solvent; Low boiling point naphtha - unspecified

Signal word: Danger

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Pictograms:



Hazard statements

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| 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. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

2.3. Other hazards

The mixture contains the following substances fulfilling the PBT criteria according to UK REACH: Hexamethyldisiloxane; octamethylcyclotetrasiloxane.

The mixture contains the following substances fulfilling the vPvB criteria according to UK REACH: Decamethylcyclopentasiloxane; octamethylcyclotetrasiloxane.

Endocrine disrupting properties: Decamethylcyclopentasiloxane; octamethylcyclotetrasiloxane.

This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The substance is included in one of the lists of endocrine disruptors (list II (human.)).

In use, may form flammable/explosive vapour-air mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|------------|--|--------------|----------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 541-02-6 | Decamethylcyclopentasiloxane | | | 25 - < 30 % |
| | 208-764-9 | | | |
| 69430-37-1 | Aminoalkoxydimethylpolysiloxane | | | 7 - < 10 % |
| | 628-867-6 | | | |
| | Flam. Liq. 2, Skin Irrit. 2, Eye Irrit. 2; H225 H315 H319 | | | |
| 64741-66-8 | Naphtha (petroleum), light alkylate; Low boiling point modified naphtha | | | 5 - < 7 % |
| | 265-068-8 | 649-276-00-X | | |
| | Asp. Tox. 1; H304 | | | |
| 8052-41-3 | stoddard solvent; Low boiling point naphtha - unspecified | | | 1 - < 3 % |
| | 232-489-3 | 649-345-00-4 | | |
| | Flam. Liq. 3, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 2; H226 H372 H304 H411 | | | |

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| | | | |
|------------|---|--------------|---------------|
| 108-88-3 | toluene | | 1 - < 3 % |
| | 203-625-9 | 601-021-00-3 | |
| | Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H225 H361d H315 H336 H373 H304 | | |
| 107-46-0 | Hexamethyldisiloxane | | 1 - < 3 % |
| | 203-492-7 | | |
| | Flam. Liq. 2, Aquatic Acute 1, Aquatic Chronic 2; H225 H400 H411 | | |
| 67-56-1 | methanol | | 0.5 - < 1 % |
| | 200-659-6 | 603-001-00-X | |
| | Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370 | | |
| 1330-20-7 | xylene | | 0.3 - < 0.5 % |
| | 215-535-7 | 601-022-00-9 | |
| | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315 | | |
| 1112-39-6 | dimethoxydimethylsilane | | 0.1 - < 0.2 % |
| | 214-189-4 | | |
| | Flam. Liq. 2, Repr. 2; H225 H361 | | |
| 25550-14-5 | Ethyltoluene | | 0.1 - < 0.2 % |
| | 247-093-6 | | |
| | Flam. Liq. 3, Repr. 2, Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2; H226 H361f H315 H319 H411 | | |
| 556-67-2 | octamethylcyclotetrasiloxane | | < 0.1 % |
| | 209-136-7 | 014-018-00-1 | |
| | Repr. 2, Aquatic Chronic 1; H361f H410 | | |
| 100-41-4 | ethylbenzene | | < 0.1 % |
| | 202-849-4 | 601-023-00-4 | |
| | Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H225 H332 H373 H304 H412 | | |
| 98-82-8 | cumene | | < 0.1 % |
| | 202-704-5 | 601-024-00-X | |
| | Flam. Liq. 3, Carc. 1B, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H350 H335 H304 H411 | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|---|---------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 541-02-6 | 208-764-9 | Decamethylcyclopentasiloxane | 25 - < 30 % |
| | | inhalation: LC50 = 7,3 - 10,32 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg | |
| 69430-37-1 | 628-867-6 | Aminoalkoxydimethylpolysiloxane | 7 - < 10 % |
| | | oral: LD50 = >5000 mg/kg | |
| 108-88-3 | 203-625-9 | toluene | 1 - < 3 % |
| | | inhalation: LC50 = (28,1) mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg | |
| 67-56-1 | 200-659-6 | methanol | 0.5 - < 1 % |
| | | inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 - < 10 | |
| 1330-20-7 | 215-535-7 | xylene | 0.3 - < 0.5 % |
| | | inhalation: LC50 = (6700) mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = (12126) mg/kg; oral: LD50 = (3523) mg/kg | |

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| | | | |
|----------|-----------|---|---------|
| 556-67-2 | 209-136-7 | octamethylcyclotetrasiloxane | < 0.1 % |
| | | Aquatic Chronic 1; H410: M=10 | |
| 100-41-4 | 202-849-4 | ethylbenzene | < 0.1 % |
| | | inhalation: LC50 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >15000 mg/kg; oral: LD50 = 3500 mg/kg | |
| 98-82-8 | 202-704-5 | cumene | < 0.1 % |
| | | inhalation: LC50 = 39 mg/l (vapours); dermal: LD50 = 12300 mg/kg | |

Further Information

stoddard solvent; Low boiling point naphtha - unspecified:

Note 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).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:

Decamethylcyclopentasiloxane, octamethylcyclotetrasiloxane

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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

First aider: Pay attention to self-protection!

After inhalation

Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.

After contact with skin

Take off immediately all contaminated clothing. Wash with plenty of water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

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

Causes skin irritation.

Repeated exposure may cause skin dryness or cracking.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. Alcohol resistant foam.

In case of major fire and large quantities: Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide (CO). Carbon dioxide (CO₂).

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5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Reignition possible over considerable distance.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

For non-emergency personnel

Remove persons to safety. Remove all sources of ignition. Ventilate affected area.
Wear personal protection equipment. (See section 8.)

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Danger of explosion! Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area.

Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaust at critical locations.

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear suitable protective clothing. (See section 8.)

Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

Advice on general occupational hygiene

The usual precautions for handling chemicals should be considered.

Keep away from food, drink and animal feedingstuffs.

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing and wash it before reuse.

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Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.
Ensure adequate ventilation of the storage area.
Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Hints on joint storage

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.
Protect against: UV-radiation/sunlight. heat. Humidity frost.
storage temperature: 15 - 25°C

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|------------|----------------------------------|-----|-------------------|-----------|---------------|--------|
| 98-82-8 | Cumene | 25 | 125 | | TWA (8 h) | WEL |
| | | 50 | 250 | | STEL (15 min) | WEL |
| 100-41-4 | Ethylbenzene | 100 | 441 | | TWA (8 h) | WEL |
| | | 125 | 552 | | STEL (15 min) | WEL |
| 67-56-1 | Methanol | 200 | 266 | | TWA (8 h) | WEL |
| | | 250 | 333 | | STEL (15 min) | WEL |
| 108-88-3 | Toluene | 50 | 191 | | TWA (8 h) | WEL |
| | | 100 | 384 | | STEL (15 min) | WEL |
| 25551-13-7 | Trimethylbenzenes: mixed isomers | 25 | 125 | | TWA (8 h) | WEL |
| 1330-20-7 | Xylene: mixed isomers | 50 | 220 | | TWA (8 h) | WEL |
| | | 100 | 441 | | STEL (15 min) | WEL |

Biological Monitoring Guidance Values (EH40)

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|-----------|-------------------------------------|-----------------------------------|--------------|---------------|---------------|
| 1330-20-7 | Xylene, o-, m-, p- or mixed isomers | methyl hippuric acid (creatinine) | 650 mmol/mol | urine | Post shift |

8.2. Exposure controls



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Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Recommended eye protection brand: Tightly sealed safety glasses. (BS/EN 166)

Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves.

Suitable material: Butyl rubber.

Thickness of glove material: 0,5 mm

Breakthrough time \geq 480 min. Penetration time (maximum wearing period): ~ 120 min. (estimated)

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 selected protective gloves have to satisfy the specifications of the Personal Protective Equipment at Work (Amendment) Regulations 2022 and the standard EN ISO 374.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Wear fire/flamm resistant/retardant clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Generation/formation of aerosols

Exceeding exposure limit values

Insufficient ventilation

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type: A/P1-3

Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|------------------|----------------|
| Physical state: | liquid |
| Colour: | colourless |
| Odour: | like Petroleum |
| Odour threshold: | not determined |

| | Test method |
|---|----------------|
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | 102 °C |
| Flammability: | not determined |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Flash point: | 12 °C ISO 3679 |
| Auto-ignition temperature: | not determined |
| Decomposition temperature: | not relevant |

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| | |
|--|------------------------------------|
| pH-Value: | not determined |
| Viscosity / kinematic: | not determined |
| Water solubility: | insoluble |
| Solubility in other solvents | |
| not determined | |
| Dissolution rate: | not relevant |
| Partition coefficient n-octanol/water: | SECTION 12: Ecological information |
| Dispersion stability: | not relevant |
| Vapour pressure: | not determined |
| (at 20 °C) | |
| Density: | not determined |
| Bulk density: | not relevant |
| Relative vapour density: | not determined |
| Particle characteristics: | not relevant |

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

none

Self-ignition temperature

Gas:

not determined

Oxidizing properties

none.

Other safety characteristics

Evaporation rate:

not determined

Solvent separation test:

not determined

Solvent content:

50-100%

Solid content:

not determined

Sublimation point:

not relevant

Softening point:

not relevant

Pour point:

not relevant

Viscosity / dynamic:

not determined

Flow time:

not determined

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Refer to chapter 10.5.

10.4. Conditions to avoid

Keep away from heat. Danger of explosion!

In use may form flammable/explosive vapour-air mixture.

Heating causes rise in pressure with risk of bursting.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Strong acid. strong alkalis.

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10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicokinetics, metabolism and distribution

No data available.

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) 13717 mg/kg; ATE (dermal) 41152 mg/kg; ATE (inhalation vapour) 411,5 mg/l; ATE (inhalation dust/mist) 68,59 mg/l

| CAS No | Chemical name | | | | |
|------------|---------------------------------|-----------------------|---------|---|--|
| | Exposure route | Dose | Species | Source | Method |
| 541-02-6 | Decamethylcyclopentasiloxane | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | ECHA Dossier | |
| | dermal | LD50 > 2000 mg/kg | Rabbit | ECHA Dossier | |
| | inhalation (4 h) dust/mist | LC50 7,3 - 10,32 mg/l | Rat | ECHA Dossier | |
| 69430-37-1 | Aminoalkoxydimethylpolysiloxane | | | | |
| | oral | LD50 >5000 mg/kg | Rat. | read across | |
| 108-88-3 | toluene | | | | |
| | oral | LD50 >5000 mg/kg | Rat | ECHA Dossier | |
| | dermal | LD50 >5000 mg/kg | Rabbit | ECHA Dossier | |
| | inhalation (4 h) vapour | LC50 (28,1) mg/l | Rat | ECHA Dossier | |
| 67-56-1 | methanol | | | | |
| | oral | ATE 100 mg/kg | | | |
| | dermal | ATE 300 mg/kg | | | |
| | inhalation vapour | ATE 3 mg/l | | | |
| | inhalation dust/mist | ATE 0,5 mg/l | | | |
| 1330-20-7 | xylene | | | | |
| | oral | LD50 (3523) mg/kg | Rat | Study report (1986) | EU Method B.1 |
| | dermal | LD50 (12126) mg/kg | Rabbit | Publication (1962) | Single dermal dose under occlusion follo |
| | inhalation (4 h) vapour | LC50 (6700) mg/l | Rat | Toxicol Appl Pharmacol 33:543-558. (1975) | EU Method B.2 |
| | inhalation dust/mist | ATE 1,5 mg/l | | | |
| 100-41-4 | ethylbenzene | | | | |
| | oral | LD50 3500 mg/kg | Rat. | REACH dossier | |

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| | | | | | | |
|---------|-------------------------|---------------|-----------|--------|---------------|--|
| | dermal | LD50 mg/kg | >15000 | Rabbit | REACH dossier | |
| | inhalation (4 h) vapour | LC50 | 17,2 mg/l | Rat. | REACH dossier | |
| | inhalation dust/mist | ATE | 1,5 mg/l | | | |
| 98-82-8 | cumene | | | | | |
| | dermal | LD50 mg/kg | 12300 | Rabbit | IUCLID | |
| | inhalation (4 h) vapour | LC50 | 39 mg/l | Rat | RTECS | |

Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

toluene:

In-vitro mutagenicity:

Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Result: negative.

Literature information: ECHA dossier

Carcinogenicity:

Method: [inhalative, OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)]

Species: Rat

Exposure duration: 2 years

Result: NOAEC = 4522 mg/m³

Literature information: REACH dossier

Reproductive toxicity:

Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

Species: Rat

Results: NOAEC = 1875 mg/m³

Literature information: REACH dossier

Developmental toxicity/teratogenicity:

Method: [inhalative, EPA OTS 798.4350 (Inhalation Developmental Toxicity Screen)]

Species: Rabbit

Exposure duration: 20d

Results: NOEC = 2812 mg/kg

Literature information: REACH dossier

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (stoddard solvent; Low boiling point naphtha - unspecified)

toluene:

Subchronic oral toxicity:

Method: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Species: Mouse.

Exposure duration: 90d

Result: NOEL = 625 mg/kg

Literature information: REACH dossier

Subchronic inhalation toxicity:

Method: -

Species: Rat.

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Exposure duration: 1 year
 Result: NOAEC = 1131 mg/m³
 Literature information: REACH dossier

Methanol:

Chronic inhalative toxicity:

Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies). Length of test: 12 m .
 D159Exposure time: 20 h/d. Species: Rat.

Result: Result: NOAEC = 1,3 mg/l. Literature information: REACH dossier

Germ cell mutagenicity:

Method: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test). Species: Mouse..

Result: negative.. Literature information: REACH dossier

Carcinogenicity:

Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies). Length of test: 18 m.
 Species: Mouse.

Result: NOAEC = 1,3 mg/l. Literature information: REACH dossier

Reproductive toxicity:

Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study). Species: Rat..

Result: NOAEC = 1,3 mg/l. Literature information: REACH dossier

Developmental toxicity/teratogenicity:

Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study). Species: Rabbit

Result: NOAEL = 1000 mg/kg.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

Endocrine disrupting properties: Decamethylcyclopentasiloxane; octamethylcyclotetrasiloxane.
 The substance is included in one of the lists of endocrine disruptors (list II (human.)).

Other information

No data available.

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested.

| CAS No | Chemical name | | | | | |
|----------|------------------------------|-----------------|-----------|-------------------------------------|--------------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 541-02-6 | Decamethylcyclopentasiloxane | | | | | |
| | Acute fish toxicity | LC50 > 16 mg/l | 96 h | Oncorhynchus mykiss (Rainbow trout) | ECHA Dossier | |
| | Acute algae toxicity | ErC50 > 12 mg/l | | Pseudokirchneriella subcapitata | ECHA Dossier | |
| | Acute crustacea toxicity | EC50 > 2,9 mg/l | 48 h | Daphnia magna | ECHA Dossier | |
| | Fish toxicity | NOEC 16 mg/l | 14 d | Oncorhynchus mykiss (Rainbow trout) | ECHA Dossier | |
| | Algae toxicity | NOEC > 12 mg/l | 4 d | Pseudokirchneriella subcapitata | ECHA Dossier | |
| 108-88-3 | toluene | | | | | |
| | Acute fish toxicity | LC50 (5,5) mg/l | 96 h | Oncorhynchus kisutch | ECHA Dossier | |

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| | | | | | | | |
|-----------|--------------------------|------------------|----------|-------|---|--|---|
| | Acute algae toxicity | ErC50 mg/l | (12,5) | 72 h | | GESTIS | |
| | Acute crustacea toxicity | EC50 mg/l | (3,78) | 48 h | Ceriodaphnia dubia | ECHA Dossier | |
| | Acute bacteria toxicity | EC50 () | 134 mg/l | 3 h | Chlorella vulgaris and Chlamydomonas angulosa | ECHA Dossier | |
| 67-56-1 | methanol | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 15400 | 96 h | Lepomis macrochirus | ECHA Dossier | |
| | Acute algae toxicity | ErC50 mg/l | 22000 | 96 h | Pseudokirchneriella subcapitata | Ecotoxicology and Environmental Safety 7 | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l | > 10000 | 48 h | Daphnia magna | Water Research 23(4): 495-499 (1989) | DIN 38412 Teil 11 |
| 1330-20-7 | xylene | | | | | | |
| | Acute fish toxicity | LL50 mg/l | (8,4) | 96 h | Oncorhynchus mykiss | Ecotoxicology and Environmental Safety. | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 mg/l | (4,9) | 72 h | Pseudokirchneriella subcapitata | Ecotoxicology and Environmental Safety. | OECD Guideline 201 |
| | Acute crustacea toxicity | EL50 mg/l | (> 3,4) | 48 h | Ceriodaphnia dubia | Ecotoxicology and Environmental Safety 3 | US EPA 600/4-91-003 |
| | Fish toxicity | NOEC mg/l | > 1,3 | 56 d | Oncorhynchus mykiss | Appl. Sci. Branch, Eng. Res. Cent. Denve | Fish were exposed in artificial streams |
| | Crustacea toxicity | NOEC mg/l | 1,17 | 7 d | Ceriodaphnia dubia | Ecotoxicology and Environmental Safety 3 | US EPA 600/4-91-003 |
| | Acute bacteria toxicity | EC50 mg/l () | > 175 | 0,5 h | Activated sludge | Research Journal WPCF 60(10) 1850-1856 (| OECD Guideline 209 |
| 100-41-4 | ethylbenzene | | | | | | |
| | Acute fish toxicity | LC50 | 5,1 mg/l | 96 h | Menidia menidia | REACH dossier | |
| | Acute algae toxicity | ErC50 | 3,6 mg/l | 96 h | Pseudokirchnerella subcapitata | REACH dossier | |
| | Acute crustacea toxicity | EC50 mg/l | 1,8-2,8 | 48 h | Daphnia magna | REACH dossier | |
| | Crustacea toxicity | NOEC mg/l | 0,96 | 7 d | Ceriodaphnia dubia | REACH dossier | |
| 98-82-8 | cumene | | | | | | |
| | Acute fish toxicity | LC50 | 2,7 mg/l | 96 h | Leuciscus idus | | |
| | Acute algae toxicity | ErC50 | 2,6 mg/l | 72 h | Selenastrum capricornutum | | |

12.2. Persistence and degradability

The product has not been tested.

| CAS No | Chemical name | | | |
|----------|------------------------------|-------|---|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 541-02-6 | Decamethylcyclopentasiloxane | | | |

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| | | | | |
|-----------|---|-------|----|---|
| | OECD 310 | 0,14 | 28 | ECHA Dossier |
| | Not easily bio-degradable (according to OECD-criteria). | | | |
| 67-56-1 | methanol | | | |
| | other guideline | 76% | 20 | ECHA Dossier |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | |
| 1330-20-7 | xylene | | | |
| | OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D | 87,8% | 28 | OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | |
| 100-41-4 | ethylbenzene | | | |
| | ISO 14593-CO2-Headspace Test | 79 | 28 | REACH dossier |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | |

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|-----------|------------------------------|---------|
| 541-02-6 | Decamethylcyclopentasiloxane | 8,023 |
| 108-88-3 | toluene | 2,73 |
| 67-56-1 | methanol | -0,77 |
| 1330-20-7 | xylene | 3,2 |
| 100-41-4 | ethylbenzene | 3,6 |
| 98-82-8 | cumene | 3,66 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|-----------|------------------------------|------------|---------------------|----------------------|
| 541-02-6 | Decamethylcyclopentasiloxane | 7060 | Pimephales promelas | ECHA |
| 67-56-1 | methanol | 1 | Cyprinus carpio | Comparative Biochemi |
| 1330-20-7 | xylene | 5,5 - 12,2 | Oncorhynchus mykiss | Appl. Sci. Branch, E |

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The mixture contains the following substances fulfilling the PBT criteria according to UK REACH:
Hexamethyldisiloxane; octamethylcyclotetrasiloxane.

The mixture contains the following substances fulfilling the vPvB criteria according to UK REACH:
Decamethylcyclopentasiloxane; octamethylcyclotetrasiloxane.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

12.7. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Disposal recommendations

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging


150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging


Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|--|---|
| 14.1. UN number or ID number: | UN 1993 |
| 14.2. UN proper shipping name: | FLAMMABLE LIQUID, N.O.S. (Aminoalkoxydimethylpolysiloxane, stoddard solvent; Low boiling point naphtha - unspecified) |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |
| |  |
| Classification code: | F1 |
| Special Provisions: | 274 601 640D |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| Transport category: | 2 |
| Hazard No: | 33 |
| Tunnel restriction code: | D/E |

Inland waterways transport (ADN)

| | |
|--|---|
| 14.1. UN number or ID number: | UN 1993 |
| 14.2. UN proper shipping name: | FLAMMABLE LIQUID, N.O.S. (Aminoalkoxydimethylpolysiloxane, stoddard solvent; Low boiling point naphtha - unspecified) |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |
| |  |
| Classification code: | F1 |
| Special Provisions: | 274 601 640D |
| Limited quantity: | 1 L |

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Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Aminoalkoxydimethylpolysiloxane, stoddard solvent; Low boiling point naphtha - unspecified)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Marine pollutant: NO
 Special Provisions: 274
 Limited quantity: 1 L
 Excepted quantity: E2
 EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Aminoalkoxydimethylpolysiloxane, stoddard solvent; Low boiling point naphtha - unspecified)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Special Provisions: A3
 Limited quantity Passenger: 1 L
 Passenger LQ: Y341
 Excepted quantity: E2
 IATA-packing instructions - Passenger: 353
 IATA-max. quantity - Passenger: 5 L
 IATA-packing instructions - Cargo: 364
 IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

See section 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant.

SECTION 15: Regulatory information

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

EU regulatory information

Authorisations (REACH, annex XIV):
 Substances of very high concern, SVHC (REACH, article 59):
 Decamethylcyclopentasiloxane; octamethylcyclotetrasiloxane

Restrictions on use (REACH, annex XVII):
 Entry 3, Entry 40, Entry 48, Entry 69, Entry 70, Entry 75

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Directive 2010/75/EU on industrial emissions:

No information available.

Directive 2004/42/EC on VOC in paints and varnishes:

No information available.

Information according to Directive 2012/18/EU (SEVESO III):

P5c FLAMMABLE LIQUIDS

Additional information

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This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

UK REACH Appendix XVII, No (mixture): 3, 40, 48, 69, 70

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Rev. 1,0; 06.06.2015, Initial release

Rev. 1.1; 01.09.2016, Changes in chapter: 1, 16.

Rev. 2.0; 11.05.2020, Revision, Changes in chapter: 2 - 16

Rev. 2.1; 05.02.2021, Revision

Rev. 3.0; 20.05.2021, Revision, Changes in chapter: 1 - 16

Rev. 3.1; 01.09.2021, Revision 2, 3,16

Rev. 4.0; 03.01.2023, Revision 2-16

Rev. 5,0; 17.10.2023, Revision

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Abbreviations and acronyms

Flam. Liq: Flammable liquids
Acute Tox: Acute toxicity
Asp. Tox: Aspiration hazard
Skin Irrit: Skin irritation
Eye Irrit: Eye irritation
Carc: Carcinogenicity
Repr: Reproductive toxicity
STOT SE: Specific target organ toxicity - single exposure
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging of substances and mixtures
DNEL: Derived No Effect Level
d: day(s)
EINECS: European INventory of Existing Commercial chemical Substances
ELINCS: European List of Notified Chemical Substances
ECHA: European Chemicals Agency
EWC: European Waste Catalogue
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
h: hour
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect concentration
NLP: No-Longer Polymers
N/A: not applicable
OECD: Organisation for Economic Co-operation and Development
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
REACH: Registration, Evaluation, Authorisation of Chemicals
SVHC: substance of very high concern
TRGS: Technische Regeln für Gefahrstoffe
UN: United Nations
VOC: Volatile Organic Compounds

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Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Flam. Liq. 2; H225 | On basis of test data |
| Skin Irrit. 2; H315 | Calculation method |
| STOT RE 2; H373 | Calculation method |
| Aquatic Chronic 3; H412 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|-------|--|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H350 | May cause cancer. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H361d | Suspected of damaging the unborn child. |
| H361f | Suspected of damaging fertility. |
| H370 | Causes damage to organs. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| 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. |
| H412 | Harmful to aquatic life with long lasting effects. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)