

Ramsauer GmbH & Co KG
4822 Bad Goisern / H. / AUSTRIA

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Primer 105****UFI: -****1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**

Primer

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

| | |
|----------------|---|
| Company | Ramsauer GmbH & Co KG Sarstein 17 4822 Bad Goisern / H. / AUSTRIA Phone +43(0)6135 8205-0 Fax +43(0)6135 8323 Homepage www.ramsauer.at E-mail office@ramsauer.at |
|----------------|---|

Address enquiries to

| | |
|------------------------------|--|
| Technical information | office@ramsauer.at |
|------------------------------|--|

| | |
|--------------------------|--|
| Safety Data Sheet | office@ramsauer.at |
|--------------------------|--|

1.4 Emergency telephone number**Advisory body**

| | |
|----------------|--------------------------|
| Company | +43(0) 1 406 43 43 (24h) |
|----------------|--------------------------|

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture [REGULATION (GB) CLP]**

Flam. Liq. 2: H225 Highly flammable liquid and vapour.
Skin Irrit. 2: H315 Causes skin irritation.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.
STOT SE 3: H336 May cause drowsiness or dizziness.
Eye Dam. 1: H318 Causes serious eye damage.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure through inhalation.

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2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms**Signal word**

DANGER

Contains:

Alkanes, C7-10-iso-

Titanium tetrabutanolate

4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane

Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated exposure through inhalation.

Precautionary statements

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

P260 Do not breathe vapours / spray.

P280 Wear protective gloves / eye protection / face protection.

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

P331 Do NOT induce vomiting.

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

P310 Immediately call a POISON CENTER / doctor.

2.3 Other hazards**Physico-chemical hazards**

Contact with moisture liberates 1-Butanol and Ethanol.

Environmental hazards

Does not contain any PBT or vPvB substances.

Contains no ingredients with endocrine-disrupting properties.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients**3.1 Substances**

not applicable

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3.2 Mixtures

The product is a mixture.

| Range [%] | Substance |
|-----------|---|
| 75 - <80 | Alkanes, C7-10-iso- |
| | CAS: 90622-56-3, EINECS/ELINCS: 292-458-5, Reg-No.: 01-2119471305-42-XXXX |
| | GHS/CLP: Flam. Liq. 2: H225 - Skin Irrit. 2: H315 - Aquatic Chronic 2: H411 - Asp. Tox. 1: H304 - STOT SE 3: H336 |
| 5 - <10 | Titanium tetrabutanolate |
| | CAS: 5593-70-4, EINECS/ELINCS: 227-006-8, Reg-No.: 01-2119967423-33-XXXX |
| | GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H335 - Skin Irrit. 2: H315 - Eye Dam. 1: H318 - STOT SE 3: H336 |
| <3 | Tetraethyl silicate |
| | CAS: 78-10-4, EINECS/ELINCS: 201-083-8, EU-INDEX: 014-005-00-0, Reg-No.: 01-2119496195-28-XXXX |
| | GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H332 - Eye Irrit. 2: H319 - STOT SE 3: H335 |
| <3 | 4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane |
| | CAS: 16068-37-4, EINECS/ELINCS: 240-212-2, Reg-No.: 01-2120764364-51-XXXX |
| | GHS/CLP: Acute Tox. 3: H301 - Acute Tox. 4: H312 - Aquatic Chronic 3: H412 - STOT RE 1: H372 - EUH071 |
| <0,2 | 1,1-Bis(triethoxysilyl)ethane |
| | CAS: 16068-36-3 |
| | GHS/CLP: Acute Tox. 3: H301 - Acute Tox. 4: H312 |

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Adhere to personal protective measures when giving first aid.
Remove contaminated soaked clothing immediately and dispose of safely.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

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.

Ingestion

Consult a doctor immediately.
Rinse out mouth and give plenty of water to drink.
Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
If swallowed or in the event of vomiting, risk of product entering the lungs.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Carbon dioxide.
Dry powder.
Foam.

Extinguishing media that must not be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:
Carbon monoxide (CO)

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5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Cool containers at risk with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.

Ensure adequate ventilation.

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (f.ex. diatomaceous earth).

Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Vacuuming in situ required.

Avoid formation of aerosols.

Keep away from all sources of ignition - Refrain from smoking.

Vapours can form an explosive mixture with air.

Take precautionary measures against static discharges.

Risk of explosion if the liquid enters the drains.

Do not eat, drink, smoke or take drugs at work.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Use barrier skin cream.

Remove contaminated soaked clothing immediately and dispose of safely.

Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.

Keep only in original container.

Prevent penetration into the ground.

Provide floor with bunding.

Do not store together with oxidizing agents.

Keep container tightly closed.

Keep container in a well-ventilated place.

Keep in a cool place. Store in a dry place.

Do not keep at temperatures above 30 °C.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection**8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

| |
|--|
| Substance |
| Alkanes, C7-10-iso- |
| CAS: 90622-56-3, EINECS/ELINCS: 292-458-5, Reg-No.: 01-2119471305-42-XXXX |
| Long-term exposure: 1200 mg/m ³ |
| Tetraethyl silicate |
| CAS: 78-10-4, EINECS/ELINCS: 201-083-8, EU-INDEX: 014-005-00-0, Reg-No.: 01-2119496195-28-XXXX |
| Long-term exposure: 10 ppm, 85 mg/m ³ , ACGIH |
| Ethanol |
| CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, Reg-No.: 01-2119457610-43-XXXX |
| Long-term exposure: 1000 ppm, 1920 mg/m ³ |
| Butan-1-ol |
| CAS: 71-36-3, EINECS/ELINCS: 200-751-6, EU-INDEX: 603-004-00-6 |
| Long-term exposure: 50 ppm, Sk |
| Short-term exposure (15-minute): 50 ppm, 154 mg/m ³ |

Ingredients with occupational exposure limits to be monitored (EU)

| |
|--|
| Substance / EC LIMIT VALUES |
| Tetraethyl silicate |
| CAS: 78-10-4, EINECS/ELINCS: 201-083-8, EU-INDEX: 014-005-00-0, Reg-No.: 01-2119496195-28-XXXX |
| Eight hours: 5 ppm, 44 mg/m ³ |

DNEL

| |
|--|
| Substance |
| Tetraethyl silicate, CAS: 78-10-4 |
| Industrial, inhalative, Acute - systemic effects, 85 mg/m ³ |
| Industrial, dermal, Acute - systemic effects, 12,1 mg/kg bw/d |
| Industrial, inhalative, Acute - local effects, 85 mg/m ³ |
| Industrial, dermal, Long-term - systemic effects, 12,1 mg/kg bw/d |
| Industrial, inhalative, Long-term - local effects, 85 mg/m ³ |
| Industrial, inhalative, Long-term - systemic effects, 85 mg/m ³ |
| general population, inhalative, Acute - local effects, 25 mg/m ³ |
| general population, inhalative, Acute - systemic effects, 25 mg/m ³ |
| general population, inhalative, Long-term - local effects, 25 mg/m ³ |
| general population, dermal, Long-term - systemic effects, 8,4 mg/kg bw/d |
| general population, inhalative, Long-term - systemic effects, 25 mg/m ³ |
| general population, dermal, Acute - systemic effects, 8,4 mg/kg bw/d |
| 4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4 |
| Industrial, inhalative, Long-term - local effects, 6 µg/m ³ |
| general population, inhalative, Long-term - local effects, 1 µg/m ³ |
| Alkanes, C7-10-iso-, CAS: 90622-56-3 |
| Industrial, inhalative, Long-term - systemic effects, 2 035 mg/m ³ |
| Industrial, dermal, Long-term - systemic effects, 773 mg/kg bw/day |
| general population, dermal, Long-term - systemic effects, 699 mg/kg bw/day |

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general population, oral, Long-term - systemic effects, 699 mg/kg bw/day

general population, inhalative, Long-term - systemic effects, 608 mg/m³

Titanium tetrabutanolat, CAS: 5593-70-4

Industrial, inhalative, Long-term - systemic effects, 127 mg/m³general population, inhalative, Long-term - systemic effects, 152 mg/m³

general population, oral, Long-term - systemic effects, 3,75 mg/kg bw/day

general population, dermal, Long-term - systemic effects, 37,5 mg/kg bw/day

PNEC

Substance

Tetraethyl silicate, CAS: 78-10-4

soil, 0,05 mg/kg dw

sediment (freshwater), 0,83 mg/kg dw

sediment (seawater), 0,083 mg/kg dw

sediment (seawater), 0,018 mg/kg

sediment (freshwater), 0,18 mg/kg

sediment, 0,18 mg/kg dw

seawater, 0,0192 mg/l

freshwater, 0,192 mg/l

sewage treatment plants (STP), 4000 mg/l

4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4

soil, 6,2 - 7,2 µg/kg soil dw

freshwater, 16 µg/L

seawater, 1,6 µg/L

sewage treatment plants (STP), 8 g/L

sediment (seawater), 7,8 - 19 µg/kg sediment dw

sediment (freshwater), 78 - 190 µg/kg sediment dw

Titanium tetrabutanolat, CAS: 5593-70-4

freshwater, 80 µg/L

soil, 16,8 µg/kg soil dw

sediment (seawater), 6,9 µg/kg sediment dw

sediment (freshwater), 68,7 µg/kg sediment dw

sewage treatment plants (STP), 65 mg/L

seawater, 8 µg/L

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8.2 Exposure controls

| | |
|--|---|
| Additional advice on system design | Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances. |
| Eye protection | Tightly fitting goggles. (EN 166:2001) |
| Hand protection | 0,7 mm Viton, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information. |
| Skin protection | Solvent-resistant protective clothing (EN 340) |
| Other | Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. |
| Respiratory protection | In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Multi-purpose filter ABEK. (DIN EN 14387) |
| Thermal hazards | not applicable |
| Delimitation and monitoring of the environmental exposition | Protect the environment by applying appropriate control measures to prevent or limit emissions. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|-----------------------------------|
| Physical state | liquid |
| Color | yellowish |
| Odor | characteristic |
| Odour threshold | not determined |
| pH-value | ca. 7 |
| pH-value [1%] | not determined |
| Boiling point [°C] | 113 |
| Flash point [°C] | ca. 3 (DIN 51755) |
| Flammability (solid, gas) [°C] | not applicable |
| Lower explosion limit | 0,8 Vol.-% |
| Upper explosion limit | 6,5 Vol.-% |
| Oxidising properties | no |
| Vapour pressure/gas pressure [kPa] | 2,0 (25°C) |
| Density [g/cm³] | 0,75 (DIN 12791) (25°C / 77,0°F) |
| Relative density | not determined |
| Bulk density [kg/m³] | not applicable |
| Solubility in water | partially soluble |
| Solubility other solvents | No information available. |
| Partition coefficient [n-octanol/water] | not determined |
| Kinematic viscosity | ca. 1,0 mm ² /s (25°C) |
| Relative vapour density | not determined |
| Evaporation speed | not determined |
| Melting point [°C] | not determined |
| Auto-ignition temperature | 380 |
| Decomposition temperature [°C] | not determined |
| Particle characteristics | No information available. |

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9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with water.

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

Reactions with acids, alkalis and oxidizing agents.

10.4 Conditions to avoid

See SECTION 7.2.

Strong heating.

10.5 Incompatible materials

Water

10.6 Hazardous decomposition products

Contact with moisture liberates 1-Butanol and Ethanol.

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SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

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

| |
|---|
| Product |
| ATE-mix, oral, Rat, > 2000 mg/kg |
| Substance |
| Tetraethyl silicate, CAS: 78-10-4 |
| LD50, oral, Rat, > 2500 mg/kg (OECD TG 423) |
| NOAEL, oral, Rat, 10 mg/kg (28 d) (OECD TG 422) |
| 4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4 |
| LD50, oral, Rat, 161 mg/kg bw |
| Alkanes, C7-10-iso-, CAS: 90622-56-3 |
| LD50, oral, Rat, 7100 - 7800 mg/kg bw |
| Titanium tetrabutanolat, CAS: 5593-70-4 |
| LD50, oral, Rat, 2000 mg/kg bw |
| NOAEL, oral, Rat, 125 mg/kg bw/day |

Acute dermal toxicity

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

| |
|---|
| Product |
| ATE-mix, dermal, Rabbit, > 2000 mg/kg |
| Substance |
| 4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4 |
| LD50, dermal, Rat, 1971 mg/kg bw |
| Alkanes, C7-10-iso-, CAS: 90622-56-3 |
| LD50, dermal, Rabbit, 2200 - 2500 mg/kg bw |

Acute inhalational toxicity

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

| |
|---|
| Product |
| ATE-mix, inhalation (vapour), Rat, > 20 mg/l |
| Substance |
| Tetraethyl silicate, CAS: 78-10-4 |
| LC50, inhalative, Rat, 10 - 16 mg/l (OECD TG 403) |
| 4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4 |
| LC50, inhalative, Rat, 377 mg/m ³ (4 h) |
| Alkanes, C7-10-iso-, CAS: 90622-56-3 |
| LC50, inhalative, Rat, 4240 - 4450 ppm (4h) |
| Titanium tetrabutanolat, CAS: 5593-70-4 |
| NOAEL, inhalative, Rat, 2,35 mg/L |

Serious eye damage/irritationBased on the available information, the classification criteria are fulfilled.
Risk of serious damage to eyes.**Skin corrosion/irritation**Based on the available information, the classification criteria are fulfilled.
Irritant**Respiratory or skin sensitisation**

Does not contain a relevant substance that meets the classification criteria.

Specific target organ toxicity —

Based on the available information, the classification criteria are fulfilled.

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| | |
|---|---|
| single exposure | Vapours may cause drowsiness and dizziness. |
| Specific target organ toxicity — repeated exposure | May cause damage to organs through prolonged or repeated exposure through inhalation. |
| Mutagenicity | Does not contain a relevant substance that meets the classification criteria. |
| Reproduction toxicity | Does not contain a relevant substance that meets the classification criteria. |
| Carcinogenicity | Does not contain a relevant substance that meets the classification criteria. |
| Aspiration hazard | Based on the available information, the classification criteria are fulfilled. v < 20,5 mm ² /s (40 °C) |
| General remarks | Toxicological data of complete product are not available. |

11.2 Information on other hazards

| | |
|--|---|
| Endocrine disrupting properties | Contains no ingredients with endocrine-disrupting properties. |
| Other information | none |

SECTION 12: Ecological information

12.1 Toxicity

| |
|--|
| Substance |
| Tetraethyl silicate, CAS: 78-10-4 |
| LC50, (96h), Brachidanio rerio, > 245 mg/l (OECD TG 203) |
| EC50, (72h), Pseudokirchneriella subcapitata, > 100 mg/l (OECD TG 201) |
| EC50, (48h), Daphnia magna, > 75 mg/l (OECD TG 202) |
| NOEC, (96h), Brachidanio rerio, > 245 mg/l (OECD TG 203) |
| NOEC, (48h), Daphnia magna, > 75 mg/l (OECD TG 202) |
| NOEC, (72h), Pseudokirchneriella subcapitata, > 100 mg/l (OECD TG 201) |
| 4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4 |
| LC50, (96h), Danio rerio, 16 mg/L |
| EC50, (48h), Crustacea, 72,6 - 92,2 mg/L |
| EC50, (72h), Algae, 53 - 671 mg/L |
| EC50, (16h), Pseudomonas putida, 8 g/L |
| NOEC, (72h), Algae, 102 mg/L |
| Alkanes, C7-10-iso-, CAS: 90622-56-3 |
| LC50, (96h), fish, 110 µg/L |
| EC50, (48h), Crustacea, 400 µg/L |
| EL50, (72h), Algae, 10 - 30 mg/L |
| NOELR, (28d), fish, 778 µg/L |
| Titanium tetrabutanolate, CAS: 5593-70-4 |
| LC50, (96h), fish, 1,74 - 2,3 g/L |
| EC50, (72h), Algae, 225 mg/L |
| EC50, (48h), Crustacea, 1,3 g/L |
| EC10, (96h), Algae, 134 mg/L |

12.2 Persistence and degradability

| | |
|--|----------------|
| Behaviour in environment compartments | not determined |
| Behaviour in sewage plant | not determined |
| Biological degradability | not determined |

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12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecological data of complete product are not available.
 Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.

Waste no. (recommended)

080111*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information**14.1 UN number or ID number**

Transport by land according to ADR/RID 1993

Inland navigation (ADN) 1993

Marine transport in accordance with IMDG 1993

Air transport in accordance with IATA 1993

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14.2 UN proper shipping name

| | |
|---|---|
| Transport by land according to ADR/RID | Flammable liquid, n.o.s. (contains Isoalkanes) |
| - Classification Code | F1 |
| - Label |   |
| - ADR LQ | 1 I |
| - ADR 1.1.3.6 (8.6) | Transport category (tunnel restriction code) 2 (D/E) |
| Inland navigation (ADN) | Flammable liquid, n.o.s. (contains Isoalkanes) |
| - Classification Code | F1 |
| - Label |   |
| Marine transport in accordance with IMDG | Flammable liquid, n.o.s. (contains Isoalkanes) |
| - EMS | F-E, S-E |
| - Label |   |
| - IMDG LQ | 1 I |
| Air transport in accordance with IATA | Flammable liquid, n.o.s. (contains Isoalkanes) |
| - Label |  |

14.3 Transport hazard class(es)

| | |
|---|-------|
| Transport by land according to ADR/RID | 3 (N) |
| Inland navigation (ADN) | 3 (N) |
| Marine transport in accordance with IMDG | 3 |
| Air transport in accordance with IATA | 3 |

14.4 Packing group

| | |
|---|----|
| Transport by land according to ADR/RID | II |
| Inland navigation (ADN) | II |
| Marine transport in accordance with IMDG | II |
| Air transport in accordance with IATA | II |

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14.5 Environmental hazards

| | |
|--|------------------|
| Transport by land according to ADR/RID | yes |
| Inland navigation (ADN) | yes |
| Marine transport in accordance with IMDG | MARINE POLLUTANT |
| Air transport in accordance with IATA | yes |

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not determined

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

| | |
|--|---|
| EEC-REGULATIONS | 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014 |
| TRANSPORT-REGULATIONS | ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021) |
| NATIONAL REGULATIONS (GB): | EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP. |
| - Observe employment restrictions for people | Observe employment restrictions for young people. Observe employment restrictions for mothers-to-be and nursing mothers. |
| - VOC (2010/75/CE) | ca. 80 % |

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information**16.1 Hazard statements (SECTION 3)**

H319 Causes serious eye irritation.
H332 Harmful if inhaled.
EUH071 Corrosive to the respiratory tract.
H372 Causes damage to lung through prolonged or repeated exposure if inhaled.
H412 Harmful to aquatic life with long lasting effects.
H312 Harmful in contact with skin.
H301 Toxic if swallowed.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H226 Flammable liquid and vapour.
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.
H225 Highly flammable liquid and vapour.

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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 EL50 = Median effective loading
 ELINCS = European List of Notified Chemical Substances
 EmS = Emergency Schedules
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 IVIS = In vitro irritation score
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 LL50 = Median lethal loading
 LQ = Limited Quantities
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information**Classification procedure**

Flam. Liq. 2: H225 Highly flammable liquid and vapour. (On basis of test data)
 Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
 Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)
 Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (On basis of test data)
 STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
 Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
 STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure through inhalation. (Calculation method)

Modified position

SECTION 2 been added: 4,4,7,7-Tetraethoxy-3,8-dioxo-4,7-disiladecane
 SECTION 2 been added: Contact with moisture liberates 1-Butanol and Ethanol.
 SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties.
 SECTION 6 been added: Use personal protective equipment (protective gloves, safety glasses, protective clothing).
 SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.
 SECTION 11 been added: Based on available data, the classification criteria are not met.
 SECTION 11 been added: Based on available data, the classification criteria are not met.
 SECTION 11 been added: Based on available data, the classification criteria are not met.
 SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.

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