

**Safety Data Sheet according to REACH-Regulation (EC) 1907/2006 amended by regulation (EC) 2020/878 (EU)**  
**Primer 40**

**Ramsauer GmbH & Co KG**  
**5350 Strobl / Wolfgangsee**

Date printed 17.12.2025, Revision 17.12.2025

Version 9.0

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

**1.1 Product identifier**

**Primer 40**  
**UFI: K5HQ-F1M2-9000-31DN**

**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  
Alte Bundesstraße 147  
5350 Strobl / Wolfgangsee / AUSTRIA  
Phone +43 (0)6135 8205 0  
Fax +43 (0)6135 8205-250  
Homepage [www.ramsauer.eu](http://www.ramsauer.eu)  
E-mail [office@ramsauer.eu](mailto:office@ramsauer.eu)

**Address enquiries to**

**Technical information**

**Safety Data Sheet**

[office@ramsauer.eu](mailto:office@ramsauer.eu)

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de) (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

**1.4 Emergency telephone number**

**Advisory body**

+43 (0) 1 406 43 43 (24h)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]**

Flam. Liq. 2: H225 Highly flammable liquid and vapour.  
Skin Irrit. 2: H315 Causes skin irritation.  
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.  
STOT SE 3: H336 May cause drowsiness or dizziness.  
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.  
Eye Irrit. 2: H319 Causes serious eye irritation.

**2.2 Label elements**

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

**Hazard pictograms**



**Signal word**

DANGER

**Contains:**

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane  
Alkanes, C7-10-iso-

**Hazard statements**

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.  
H319 Causes serious eye irritation.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing vapours / spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection / face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.  
P331 Do NOT induce vomiting.  
P312 Call a POISON CENTER / doctor if you feel unwell.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/national regulation.

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## 2.3 Other hazards

<b>Physico-chemical hazards</b>	Contact with moisture liberates Ethanol.
<b>Human health dangers</b>	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
<b>Environmental hazards</b>	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
<b>Other hazards</b>	Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances not applicable

### 3.2 Mixtures

**The product is a mixture.**

Range [%]	Substance
<90	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane EINECS/ELINCS: 921-024-6, Reg-No.: 01-2119475514-35-XXXX GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411
<50	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics CAS: 64742-49-0, EINECS/ELINCS: 927-510-4, Reg-No.: 01-2119475515-33-XXXX GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411
<40	Hydrocarbons, C6, isoalkanes, <5% n-hexane CAS: 64742-49-0, EINECS/ELINCS: 931-254-9, EU-INDEX: 649-328-00-1, Reg-No.: 01-2119484651-34-XXXX GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411
10 - <20	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
1 - <3	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
<1	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

**Comment on component parts** For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information** Take off contaminated clothing and wash before reuse.

**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** Seek medical advice immediately.

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

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#### **4.2 Most important symptoms and effects, both acute and delayed**

Headache  
Irritant effects  
Nausea, vomiting.  
Vertigo

#### **4.3 Indication of any immediate medical attention and special treatment needed**

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

### **SECTION 5: Fire-fighting measures**

#### **5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Foam. Carbon dioxide. Water spray jet. Dry powder.
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<b>Extinguishing media that must not be used</b>	Full water jet.
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#### **5.2 Special hazards arising from the substance or mixture**

In the event of fire the following can be released:  
Carbon monoxide (CO)  
Not combusted hydrocarbons.

#### **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.

### **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).

#### **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 (e.g. oil binder).  
Dispose of absorbed material in accordance with the regulations.

#### **6.4 Reference to other sections**

See SECTION 8+13

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Use solvent-resistant equipment.  
Provide good room ventilation even at ground level (vapours are heavier than air).  
Keep away from all sources of ignition - Refrain from smoking.  
Take precautionary measures against static discharges.  
Ignitable mixtures can be formed in the empty container.  
Vapours can form an explosive mixture with air.  
Ground/bond container and receiving equipment.  
Use explosion-proofed equipment/fittings and non-sparkling tools.  
Do not eat, drink, smoke or take drugs at work.  
Take off contaminated clothing and wash before reuse.  
Wash hands before breaks and after work.  
Use barrier skin cream.

**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.  
Protect from heat/overheating.

**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 EU (2004/37/EG)**

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 <sup>3</sup>

**DNEL**

Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
Industrial, dermal, Long-term - systemic effects, 773 mg/kg bw/d
Industrial, inhalative, Long-term - systemic effects, 2035 mg/m <sup>3</sup>
general population, inhalative, Long-term - systemic effects, 608 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 699 mg/kg bw/d
general population, oral, Long-term - systemic effects, 699 mg/kg bw/d
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/d
Industrial, inhalative, Long-term - systemic effects, 5306 mg/m <sup>3</sup>
general population, inhalative, Long-term - systemic effects, 1131 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 1377 mg/kg bw/d
general population, oral, Long-term - systemic effects, 1301 mg/kg bw/d
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
Industrial, dermal, Long-term - systemic effects, 300 mg/kg bw/d
Industrial, inhalative, Long-term - systemic effects, 2085 mg/m <sup>3</sup>
general population, inhalative, Long-term - systemic effects, 447 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 149 mg/kg bw/d
general population, dermal, Long-term - systemic effects, 149 mg/kg bw/d
Tetraethyl silicate, CAS: 78-10-4
Industrial, inhalative, Acute - systemic effects, 44 mg/m <sup>3</sup>
Industrial, inhalative, Acute - local effects, 44 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 6,3 mg/kg bw/day
Industrial, inhalative, Long-term - local effects, 44 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - systemic effects, 44 mg/m <sup>3</sup>
general population, inhalative, Acute - local effects, 5,3 mg/m <sup>3</sup>
general population, inhalative, Acute - systemic effects, 5,3 mg/m <sup>3</sup>
general population, inhalative, Long-term - local effects, 5,3 mg/m <sup>3</sup>
general population, inhalative, Long-term - systemic effects, 5,3 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 1,8 mg/kg bw/day
Alkanes, C7-10-iso-, CAS: 90622-56-3
Industrial, inhalative, Long-term - systemic effects, 2 035 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 773 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 699 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 608 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 699 mg/kg bw/day
Titanium tetrabutanolate, CAS: 5593-70-4
Industrial, inhalative, Long-term - systemic effects, 127 mg/m <sup>3</sup>
general population, inhalative, Long-term - systemic effects, 152 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 37,5 mg/kg bw/day
general population, oral, Long-term - systemic effects, 3,75 mg/kg bw/day

**PNEC**

Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

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There are no PNEC values established for the substance.
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
There are no PNEC values established for the substance.
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
There are no PNEC values established for the substance.
Titanium tetrabutanolate, CAS: 5593-70-4
freshwater, 80 µg/L
seawater, 8 µg/L
sewage treatment plants (STP), 65 mg/L
sediment (freshwater), 68,7 µg/kg sediment dw
sediment (seawater), 6,9 µg/kg sediment dw
soil, 16,8 µg/kg soil dw

## 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

Safety glasses. (EN 166:2001)

### Hand protection

0,7 mm Nitrile rubber, >480 min (EN 374-1/-2/-3).

The details concerned are recommendations. Please contact the glove supplier for further information.

### Skin protection

Protective clothing (EN 340)

### Other

Avoid contact with eyes and skin.

Do not inhale gases/vapours.

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.

Short term: filter apparatus, filter A. (DIN EN 14387)

### Thermal hazards

no

### Delimitation and monitoring of the environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit emissions.

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## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	liquid
<b>Form</b>	liquid
<b>Color</b>	colourless
<b>Odor</b>	characteristic
<b>Odour threshold</b>	not relevant
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point or initial boiling point and boiling range [°C]</b>	>59
<b>Flash point [°C]</b>	-25
<b>Flammability</b>	>200
<b>Lower explosion limit</b>	ca. 1,0 Vol.-%
<b>Upper explosion limit</b>	not determined
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	ca. 4 (20°C)
<b>Density [g/cm³]</b>	ca. 0,70 (20 °C / 68,0 °F)
<b>Relative density</b>	not determined
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water [g/L]</b>	virtually insoluble
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient n-octanol/water (log value)</b>	not determined
<b>Kinematic viscosity</b>	<20,5 mm²/s (40 °C)
<b>Relative vapour density</b>	not determined
<b>Melting point [°C]</b>	not determined
<b>Auto-ignition temperature [°C]</b>	not determined
<b>Decomposition temperature [°C]</b>	not determined
<b>Particle characteristics</b>	No information available.

### **9.2 Other information**

none

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

See SECTION 10.3.

### **10.2 Chemical stability**

Stable under normal ambient conditions (ambient temperature).

### **10.3 Possibility of hazardous reactions**

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.  
Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.  
Violent reaction under influence of oxidising agents.

### **10.4 Conditions to avoid**

See SECTION 7  
Strong heating.

### **10.5 Incompatible materials**

not determined

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**10.6 Hazardous decomposition products**

Flammable gases/vapours.

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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, > 2000 mg/kg
Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LD50, oral, Rat, > 5800 mg/kg
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
LD50, oral, Rat, > 5000 mg/kg, OECD 401
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
LD50, oral, Rat, > 3000 mg/kg bw
Tetraethyl silicate, CAS: 78-10-4
LD50, oral, Rat, > 2500 mg/kg, OECD 423
NOAEL, oral, Rat, 10 mg/kg (28 d), OECD 422
Alkanes, C7-10-iso-, CAS: 90622-56-3
LD50, oral, Rat, 7100 - 7800 mg/kg bw
Titanium tetrabutanolate, 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, > 2000 mg/kg
Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LD50, dermal, Rat, > 2800 - 3100 mg/kg bw
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
LD50, dermal, Rabbit, > 3350 mg/kg, OECD 402
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
LD50, dermal, Rat, 2800 - 3100 mg/kg
Tetraethyl silicate, CAS: 78-10-4
dermal, Rabbit, OECD 404, non-irritating
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), > 20 mg/l 4h
Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LC50, inhalative, Rat, > 25,2 mg/l 4h
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
LC50, inhalative, Rat, > 20 mg/l/4h, OECD 403
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
LC50, inhalative, Rat, 23,3 mg/L 4h
Tetraethyl silicate, CAS: 78-10-4
LC50, inhalative, Rat, 10 - 16,8 mg/l, OECD 403
Alkanes, C7-10-iso-, CAS: 90622-56-3
LC50, inhalative, Rat, 4240 - 4450 ppm (4h)

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Titanium tetrabutanolate, CAS: 5593-70-4

NOAEL, inhalative, Rat, 2,35 mg/L

**Serious eye damage/irritation**      Irritant

Substance

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Eye, Rabbit, non-irritating

Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0

Eye, Rabbit, In vivo study, non-irritating

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0

Eye, Rabbit, In vivo study, non-irritating

Tetraethyl silicate, CAS: 78-10-4

Eye, Human, irritant

**Skin corrosion/irritation**      Irritant

Substance

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

dermal, Rabbit, OECD 404, irritant

Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0

dermal, Rabbit, In vivo study, irritant

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0

dermal, Rabbit, OECD 404, irritant

Tetraethyl silicate, CAS: 78-10-4

dermal, Rabbit, OECD 404, non-irritating

**Respiratory or skin sensitisation**      Does not contain a relevant substance that meets the classification criteria.

Substance

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Guinea pig, OECD 406, non-sensitizing

Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0

dermal, non-sensitizing

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0

dermal, non-sensitizing

Tetraethyl silicate, CAS: 78-10-4

dermal, Guinea pig, OECD 406, non-sensitizing

**Specific target organ toxicity — single exposure**      Vapours may cause drowsiness and dizziness.

Substance

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0

inhalative, adverse effect observed

**Specific target organ toxicity — repeated exposure**      Based on available data, the classification criteria are not met.

Substance

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

NOAEC, inhalative, Rat, 24300 mg/m<sup>3</sup>, negativ

Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0

LOAEC, inhalative, Rat, 10 504 mg/m<sup>3</sup>, negativ

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0

NOAEC, inhalative, Rat, 12470 mg/m<sup>3</sup>, Study, no adverse effect observed

Tetraethyl silicate, CAS: 78-10-4

NOAEL, oral, Rat, 2000 mg/kg bw/day, OECD 408, no adverse effect observed

LOAEC, inhalative, mouse, 426 mg/m<sup>3</sup>, OECD 412

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

Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
in vivo, negativ
in vitro, negativ
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
in vivo, negativ
in vitro, negativ
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
in vitro, negativ
in vivo, negativ
Tetraethyl silicate, CAS: 78-10-4
in vitro, OECD 471, negativ
in vitro, OECD 473, negativ
in vitro, OECD 476, negativ

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

**- Fertility**

Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
NOAEC, inhalative, Rat, 31680 mg/m <sup>3</sup> , no adverse effect observed
Tetraethyl silicate, CAS: 78-10-4
NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 416, no adverse effect observed

**- Development**

Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
NOAEC, inhalative, Rat, 1200 ppm, no adverse effect observed
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
NOAEC, inhalative, Rat, 10560 mg/m <sup>3</sup> , no adverse effect observed
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
NOAEC, inhalative, Rat, 1200 ppm (subacute), In vivo study, no adverse effect observed
Tetraethyl silicate, CAS: 78-10-4
NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 422, no adverse effect observed

**Carcinogenicity**

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

Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
NOAEC, inhalative, Rat, 31680 mg/m <sup>3</sup> , negativ

**Aspiration hazard**

Based on available data, the classification criteria are met.

v < 20,5 mm<sup>2</sup>/s (40 °C)

May be fatal if swallowed and enters airways.

**General remarks**

Toxicological data of complete product are not available.

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**11.2.2 Other information**

none

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**SECTION 12: Ecological information**

**12.1 Toxicity**

Ecological data of complete product are not available.

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

Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
EL50, (24h), Daphnia magna, 12 mg/L
EL50, (48h), Daphnia magna, 3 mg/L
EL50, (72h), Pseudokirchneriella subcapitata, 12 mg/L
LL50, (96h), Oncorhynchus mykiss, > 13,4 mg/L
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
EC50, (72h), Pseudokirchneriella subcapitata, 13,56 mg/l
EL50, (96h), Daphnia magna, 3,0 mg/L
NOEC, (28d), Oncorhynchus mykiss, 4,09 mg/l
NOEC, (21d), Daphnia magna, 7,14 mg/l
LL50, (96h), Oncorhynchus mykiss, 12 mg/L
ErL50, (72h), Pseudokirchneriella subcapitata, 55 mg/l, OECD 201
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
EC50, (48h), Daphnia magna, 3 mg/l
EC50, (72h), Pseudokirchneriella subcapitata, 10 - 30 mg/l
NOEC, (21d), Daphnia magna, 0,17 mg/l
NOELR, (72h), Pseudokirchneriella subcapitata, 10 mg/l
LL50, (96h), Oncorhynchus mykiss, > 13,4 mg/l
Tetraethyl silicate, CAS: 78-10-4
LC50, (96h), Brachidonio rerio, > 245 mg/l (OECD TG 203)
EC50, (48h), Daphnia magna, > 75 mg/l (OECD TG 202)
EC50, (72h), Pseudokirchneriella subcapitata, > 100 mg/l (OECD TG 201)
NOEC, (72h), Pseudokirchneriella subcapitata, > 100 mg/l (OECD TG 201)
NOEC, (48h), Daphnia magna, > 75 mg/l (OECD TG 202)
NOEC, (96h), Brachidonio rerio, > 245 mg/l (OECD TG 203)
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, (48h), Crustacea, 1,3 g/L
EC50, (72h), Algae, 225 mg/L
EC10, (96h), Algae, 134 mg/L

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## **12.2 Persistence and degradability**

**Behaviour in environment compartments** not determined

**Behaviour in sewage plant** not determined

**Biological degradability** not determined

Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
(28d), 98 %, OECD 301 F, The product is readily biodegradable.
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
(28d), 98 %, OECD 301 F, The product is readily biodegradable.
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0
(28d), 98%, OECD 301 F, The product is readily biodegradable.

## **12.3 Bioaccumulative potential**

not determined

Substance
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
log Kow, 4

## **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**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **12.7 Other adverse effects**

None known.

## **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**

Disposal in an incineration plant in accordance with the regulations of the local authorities.  
Dispose of as hazardous waste.

#### **Waste no. (recommended)**

200113\*

#### **Contaminated packaging**

Packaging that cannot be cleaned should be disposed of as for product.  
Uncontaminated packaging may be taken for recycling.

#### **Waste no. (recommended)**

150110\* packaging containing residues of or contaminated by hazardous substances  
150102

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**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

**14.2 UN proper shipping name**

Transport by land according to ADR/RID Flammable liquid, n.o.s. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane)

- Classification Code F1



- Label 1 l

- ADR LQ Transport category (tunnel restriction code) 2 (D/E)

Inland navigation (ADN) Flammable liquid, n.o.s. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane)

- Classification Code F1



Marine transport in accordance with IMDG Flammable liquid, n.o.s. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane)

- EMS F-E, S-E

- Label



- IMDG LQ 1 l

Air transport in accordance with IATA Flammable liquid, n.o.s. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane)

- 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

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**14.4 Packing group**

Transport by land according to II  
ADR/RID

Inland navigation (ADN) II

Marine transport in accordance with II  
IMDG

Air transport in accordance with IATA II

**14.5 Environmental hazards**

Transport by land according to yes  
ADR/RID

Inland navigation (ADN) yes

Marine transport in accordance with no  
IMDG

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/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 2024/573; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

**- Comment on component parts** Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

**- Annex XIV (REACH)** According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances  $\geq 0.1\%$  that are subject to authorisation.

**- Annex XVII (REACH)** According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains  $\geq 0.1\%$  of substances with the following restrictions. 40, 75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3

**TRANSPORT-REGULATIONS** ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025, 66th Edition)

**NATIONAL REGULATIONS (EU):**

**- Observe employment restrictions for people** Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

**- VOC (2010/75/CE)** > 90 %

**15.2 Chemical safety assessment**

not applicable

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**SECTION 16: Other information**

**16.1 Hazard statements (SECTION 3)**

H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H226 Flammable liquid and vapour.  
  
H411 Toxic to aquatic life with long lasting effects.  
H336 May cause drowsiness or dizziness.  
H315 Causes skin irritation.  
H304 May be fatal if swallowed and enters airways.  
H225 Highly flammable liquid and vapour.

**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**

This document does not comply with Regulation (EC) No 1907/2006, article 31 (5) and may be used for internal purposes only.

**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)  
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)  
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)  
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

**Modified position**

1.3, 2.3, 3.2, 4.1, 4.2, 4.3, 8.1, 8.2, 9.1, 11.1, 11.2, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7, 14.2, 15.1, 15.2, 16.1, 16.2, 16.3

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