

PANTERA Product GmbH  
28197 Bremen / GERMANY

Date printed 22.12.2020, Revision 11.09.2019

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Aktivator****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**

<b>Company</b>	PANTERA Product GmbH Simon-Bolivar-Straße 29 28197 Bremen / GERMANY Phone +49 (0)421 520 80 780 Fax +49 (0)421 520 80 789 Homepage <a href="http://www.panteraproduct.de">www.panteraproduct.de</a> E-mail <a href="mailto:info@panteraproduct.de">info@panteraproduct.de</a>
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**Address enquiries to****Technical information** [info@panteraproduct.de](mailto:info@panteraproduct.de)**Safety Data Sheet** [sdb@chemiebuero.de](mailto:sdb@chemiebuero.de)**1.4 Emergency telephone number****Advisory body** GIZ-Nord; +49 (0)551 19 240**Company****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.

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## 2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (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.  
 H304 May be fatal if swallowed and enters airways.  
 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.  
 P501 Dispose of contents/container in accordance with local/national regulation.

### UFI:

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## 2.3 Other hazards

### Environmental hazards

Does not contain any PBT or vPvB substances.

### Other hazards

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

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### SECTION 3: Composition / Information on ingredients

#### Product-type:

3.2 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 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 EINECS/ELINCS: 931-254-9, EU-INDEX: 649-328-00-1, Reg-No.: 01-2119484651-34-XXXX GHS/CLP: Flam. Liq. 2: H225 - Skin Irrit. 2: H315 - Asp. Tox. 1: H304 - STOT SE 3: H336 - Aquatic Chronic 2: H411
10 - <25	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
0,1 - <1	Toluene CAS: 108-88-3, EINECS/ELINCS: 203-625-9, EU-INDEX: 601-021-00-3, Reg-No.: 01-2119471310-51-XXXX GHS/CLP: Flam. Liq. 2: H225 - Repr. 2: H361d - Asp. Tox. 1: H304 - STOT RE 2: H373 - Skin Irrit. 2: H315 - STOT SE 3: H336

#### 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

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Seek medical advice immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

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

Headache  
 Irritant effects

#### 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.

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## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** Carbon dioxide.  
 Water spray jet.  
 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)  
 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.

### 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. sand).  
 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 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.

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### **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 (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 <sup>3</sup>
Toluene
CAS: 108-88-3, EINECS/ELINCS: 203-625-9, EU-INDEX: 601-021-00-3, Reg-No.: 01-2119471310-51-XXXX
Long-term exposure: 50 ppm, 191 mg/m <sup>3</sup> , Sk
Short-term exposure (15-minute): 100 ppm, 384 mg/m <sup>3</sup>
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
EINECS/ELINCS: 921-024-6, Reg-No.: 01-2119475514-35-XXXX
Long-term exposure: 1200 mg/m <sup>3</sup>
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
EINECS/ELINCS: 927-510-4, Reg-No.: 01-2119475515-33-XXXX
Long-term exposure: 1200 mg/m <sup>3</sup>
Hydrocarbons, C6, isoalkanes, <5% n-hexane
EINECS/ELINCS: 931-254-9, EU-INDEX: 649-328-00-1, Reg-No.: 01-2119484651-34-XXXX
Long-term exposure: 1200 mg/m <sup>3</sup>
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 <sup>3</sup>
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 <sup>3</sup>

#### Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Toluene
CAS: 108-88-3, EINECS/ELINCS: 203-625-9, EU-INDEX: 601-021-00-3, Reg-No.: 01-2119471310-51-XXXX
Eight hours: 50 ppm, 192 mg/m <sup>3</sup> , H
Short-term (15-minute): 100 ppm, 384 mg/m <sup>3</sup>

#### DNEL

Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
Industrial, inhalative, Long-term - systemic effects: 2035 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 773 mg/kg bw/d.
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
Industrial, dermal, Long-term - systemic effects: 13964 mg/kg bw/day.
Industrial, inhalative, Long-term - systemic effects: 5306 mg/m <sup>3</sup> .
general population, dermal, Long-term - systemic effects: 1377 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 1301 mg/kg bw/day.

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general population, inhalative, Long-term - systemic effects: 1131 mg/m<sup>3</sup>.

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

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, dermal, Long-term - systemic effects: 149 mg/kg bw/d.

general population, inhalative, Long-term - systemic effects: 477 mg/m<sup>3</sup>.

general population, oral, Long-term - systemic effects: 149 mg/kg bw/d.

Alkanes, C7-10-iso-, CAS: 90622-56-3

Industrial, dermal, Long-term - systemic effects: 773 mg/kg bw/day.

Industrial, inhalative, Long-term - systemic effects: 2 035 mg/m<sup>3</sup>.

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

general population, inhalative, Long-term - systemic effects: 608 mg/m<sup>3</sup>.

general population, dermal, Long-term - systemic effects: 699 mg/kg bw/day.

Toluene, CAS: 108-88-3

Industrial, dermal, Long-term - systemic effects: 384 mg/kg bw/day.

Industrial, inhalative, Acute - local effects: 384 mg/m<sup>3</sup>.Industrial, inhalative, Long-term - local effects: 192 mg/m<sup>3</sup>.Industrial, inhalative, Long-term - systemic effects: 192 mg/m<sup>3</sup>.Industrial, inhalative, Acute - systemic effects: 384 mg/m<sup>3</sup>.general population, inhalative, Long-term - systemic effects: 56,5 mg/m<sup>3</sup>.

general population, oral, Long-term - systemic effects: 8,13 mg/kg bw/day.

general population, inhalative, Long-term - local effects: 56,5 mg/m<sup>3</sup>.general population, inhalative, Acute - local effects: 226 mg/m<sup>3</sup>.general population, inhalative, Acute - systemic effects: 226 mg/m<sup>3</sup>.

general population, dermal, Long-term - systemic effects: 226 mg/kg bw/day.

Titanium tetrabutanolate, CAS: 5593-70-4

Industrial, inhalative, Long-term - systemic effects: 127 mg/m<sup>3</sup>.

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.

general population, inhalative, Long-term - systemic effects: 152 mg/m<sup>3</sup>.

## PNEC

Substance

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt; 5% n-hexane

There are no PNEC values established for the substance.,

Toluene, CAS: 108-88-3

soil, 2,89 mg/kg soil dw.

sediment (seawater), 16,39 mg/kg sediment dw.

sediment (freshwater), 16,39 mg/kg sediment dw.

sewage treatment plants (STP), 13,61 mg/l.

seawater, 0,68 mg/l.

freshwater, 0,68 mg/l.

Titanium tetrabutanolate, CAS: 5593-70-4

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.

freshwater, 80 µg/L.

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**8.2 Exposure controls**

<b>Additional advice on system design</b>	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.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	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.
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	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.
<b>Respiratory protection</b>	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)
<b>Thermal hazards</b>	no
<b>Delimitation and monitoring of the environmental exposition</b>	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**

<b>Form</b>	liquid
<b>Color</b>	colourless
<b>Odor</b>	characteristic
<b>Odour threshold</b>	not applicable
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point [°C]</b>	>59
<b>Flash point [°C]</b>	-25
<b>Flammability (solid, gas) [°C]</b>	>200
<b>Lower explosion limit</b>	ca. 1,0 Vol.-%
<b>Upper explosion limit</b>	ca.
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	ca. 4 (20°C)
<b>Density [g/ml]</b>	ca. 0,70 (20°C / 68,0°F)
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	virtually insoluble
<b>Partition coefficient [n-octanol/water]</b>	not determined
<b>Viscosity</b>	<20,5 mm²/s (40 °C)
<b>Relative vapour density determined in air</b>	not determined
<b>Evaporation speed</b>	not determined
<b>Melting point [°C]</b>	not determined
<b>Autoignition temperature [°C]</b>	not determined
<b>Decomposition temperature [°C]</b>	not determined

**9.2 Other information**

none



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## **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

### **10.6 Hazardous decomposition products**

Flammable gases/vapours.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Product
ATE-mix, inhalation (vapour ), > 20 mg/l 4h.
ATE-mix, dermal, > 2000 mg/kg.
ATE-mix, oral, > 2000 mg/kg.
Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LD50, dermal, Rabbit: > 3920 mg/kg.
LD50, oral, Rat: > 5800 mg/kg.
LC50, inhalative, Rat: > 25,2 mg/l 4h.
Hydrocarbons, C6, isoalkanes, <5% n-hexane
LD50, oral, Rat: 25 mL/kg bw.
LD50, dermal, Rabbit: 5 mL/kg bw.
LC50, inhalative, Rat: 73860 ppm (4 h).
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
LD50, oral, Rat: > 3000 mg/kg bw.
Alkanes, C7-10-iso-, CAS: 90622-56-3
LD50, oral, Rat: 7100 - 7800 mg/kg bw.
LD50, dermal, Rabbit: 2200 - 2500 mg/kg bw.
LC50, inhalative, Rat: 4240 - 4450 ppm (4h).
Toluene, CAS: 108-88-3
LD50, oral, Rat: 5580 mg/kg bw.
LD50, dermal, Rabbit: 5000 mg/kg bw.
LC50, inhalative, Rat: 25,7 - 30 mg/L (4h).
Titanium tetrabutanolate, CAS: 5593-70-4
LD50, oral, Rat: 2000 mg/kg bw.
NOAEL, inhalative, Rat: 2,35 mg/L.
NOAEL, oral, Rat: 125 mg/kg bw/day.

<b>Serious eye damage/irritation</b>	Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Irritant Calculation method
<b>Skin corrosion/irritation</b>	Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Irritant Calculation method
<b>Respiratory or skin sensitisation</b>	Does not contain a relevant substance that meets the classification criteria.
<b>Specific target organ toxicity — single exposure</b>	Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Vapours may cause drowsiness and dizziness. Calculation method
<b>Specific target organ toxicity — repeated exposure</b>	Based on available data, the classification criteria are not met. Toxicological data of complete product are not available. Calculation method
<b>Mutagenicity</b>	Does not contain a relevant substance that meets the classification criteria.
<b>Reproduction toxicity</b>	Based on available data, the classification criteria are not met. Toxicological data of complete product are not available. Calculation method
<b>Carcinogenicity</b>	Does not contain a relevant substance that meets the classification criteria.

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**Aspiration hazard**

Based on the available information, the classification criteria are fulfilled.  
 $v < 20,5 \text{ mm}^2/\text{s}$  (40 °C)  
 May be fatal if swallowed and enters airways.  
 On basis of test data

**General remarks**

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

**SECTION 12: Ecological information****12.1 Toxicity**

Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
EL50, (72h), Pseudokirchneriella subcapitata: 30 - 100 mg/l.
EL50, (48h), Daphnia magna: 3 mg/l.
NOEC, (21d), Daphnia magna: 0,17 mg/l.
LL50, (96h), Oncorhynchus mykiss: 11,4 mg/l.
LOEC, (21d), Daphnia magna: 0,32 mg/l.
Hydrocarbons, C6, isoalkanes, <5% n-hexane
EL50, (72h), Algae: 13,56 mg/L.
EL50, (48h), Crustacea: 7,138 mg/L.
NOELR, (96h), fish: 4,089 mg/L.
LL50, (96h), fish: 18,27 mg/L.
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
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.
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.
Toluene, CAS: 108-88-3
LC50, (96h), fish: 5,5 mg/L.
LC50, (48h), Crustacea: 3,78 mg/L.
EC10, (168h), Crustacea: 740 µg/L.
Titanium tetrabutanolat, 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.

**12.2 Persistence and degradability**

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Biological degradability</b>	not determined

**12.3 Bioaccumulative potential**

not determined

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**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 Other adverse effects**

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

Do not discharge product unmonitored into the environment.

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

Waste material c 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.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

**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\*

150102

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

<b>Transport by land according to ADR/RID</b>	1993
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<b>Inland navigation (ADN)</b>	1993
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<b>Marine transport in accordance with IMDG</b>	1993
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<b>Air transport in accordance with IATA</b>	1993
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**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



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

- Classification Code

F1

- Label



**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 I

**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

**Inland navigation (ADN)**

3

**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 Transport in bulk according to Annex II of MARPOL and the IBC Code**

not determined

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

<b>EEC-REGULATIONS</b>	1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
<b>TRANSPORT-REGULATIONS</b>	ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)
<b>NATIONAL REGULATIONS (GB):</b>	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- <b>Observe employment restrictions for people</b>	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- <b>VOC (2010/75/CE)</b>	> 90 %

**15.2 Chemical safety assessment**

not applicable

**SECTION 16: Other information****16.1 Hazard statements (SECTION 03)**

H373 May cause damage to organs through prolonged or repeated exposure.  
H361d Suspected of damaging the unborn child.  
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.

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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  
 ELINCS = European List of Notified Chemical Substances  
 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  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 LC0 = lethal concentration, 0%  
 LOAEL = lowest-observed-adverse-effect level  
 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)  
 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**

none

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