

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 1 / 17

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Aktivator****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	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 www.panteraproduct.de E-mail info@panteraproduct.de
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Address enquiries to**Technical information** info@panteraproduct.de**Safety Data Sheet** 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 (GB) CLP]**

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.

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 2 / 17

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.
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

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.
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.

2.3 Other hazards

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

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 3 / 17

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 - 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 - 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

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.

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.

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 4 / 17

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam.
Carbon dioxide.
Water spray jet.
Dry powder.

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 within 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. sand).
Dispose of absorbed material in accordance within 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-sparking 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.

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 5 / 17

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

PANTERA Product GmbH

28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 6 / 17

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
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 ³ , Sk
Short-term exposure (15-minute): 100 ppm, 384 mg/m ³
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 ³
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
CAS: 64742-49-0, EINECS/ELINCS: 927-510-4, Reg-No.: 01-2119475515-33-XXXX
Long-term exposure: 1200 mg/m ³
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
Long-term exposure: 1200 mg/m ³
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
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 ³ , H
Short-term (15-minute): 100 ppm, 384 mg/m ³

DNEL

Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
Industrial, inhalative, Long-term - systemic effects, 2035 mg/m ³
Industrial, dermal, Long-term - systemic effects, 773 mg/kg bw/d
general population, oral, Long-term - systemic effects, 699 mg/kg bw/d
general population, inhalative, Long-term - systemic effects, 608 mg/m ³
general population, dermal, 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 ³

PANTERA Product GmbH

28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 7 / 17

general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 1377 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 1131 mg/m ³
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Industrial, inhalative, Long-term - systemic effects, 2085 mg/m ³
Industrial, dermal, Long-term - systemic effects, 300 mg/kg bw/d
general population, oral, Long-term - systemic effects, 149 mg/kg bw/d
general population, inhalative, Long-term - systemic effects, 477 mg/m ³
general population, dermal, 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 ³
general population, dermal, Long-term - systemic effects, 699 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 608 mg/m ³
general population, oral, Long-term - systemic effects, 699 mg/kg bw/day
Toluene, CAS: 108-88-3
Industrial, inhalative, Long-term - systemic effects, 192 mg/m ³
Industrial, inhalative, Long-term - local effects, 192 mg/m ³
Industrial, inhalative, Acute - local effects, 384 mg/m ³
Industrial, inhalative, Acute - systemic effects, 384 mg/m ³
Industrial, dermal, Long-term - systemic effects, 384 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 226 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 56,5 mg/m ³
general population, inhalative, Long-term - local effects, 56,5 mg/m ³
general population, inhalative, Acute - systemic effects, 226 mg/m ³
general population, oral, Long-term - systemic effects, 8,13 mg/kg bw/day
general population, inhalative, Acute - local effects, 226 mg/m ³
Titanium tetrabutanolate, CAS: 5593-70-4
Industrial, inhalative, Long-term - systemic effects, 127 mg/m ³
general population, inhalative, Long-term - systemic effects, 152 mg/m ³
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
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

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 8 / 17

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	colourless
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	>59
Flash point [°C]	-25
Flammability (solid, gas) [°C]	>200
Lower explosion limit	ca. 1,0 Vol.-%
Upper explosion limit	ca.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	ca. 4 (20°C)
Density [g/cm³]	ca. 0,70 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	<20,5 mm ² /s (40 °C)
Relative vapour density	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Auto-ignition temperature	not determined
Decomposition temperature [°C]	not determined
Particle characteristics	No information available.

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 9 / 17

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

10.6 Hazardous decomposition products

Flammable gases/vapours.

PANTERA Product GmbH

28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 10 / 17

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
LD50, oral, Rat, 25 mL/kg bw
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
Toluene, CAS: 108-88-3
LD50, oral, Rat, 5580 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, > 2000 mg/kg
Substance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
LD50, dermal, Rabbit, > 3920 mg/kg
Hydrocarbons, C6, isoalkanes, <5% n-hexane
LD50, dermal, Rabbit, 5 mL/kg bw
Alkanes, C7-10-iso-, CAS: 90622-56-3
LD50, dermal, Rabbit, 2200 - 2500 mg/kg bw
Toluene, CAS: 108-88-3
LD50, dermal, Rabbit, 5000 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
LC50, inhalative, Rat, 73860 ppm (4 h)
Alkanes, C7-10-iso-, CAS: 90622-56-3
LC50, inhalative, Rat, 4240 - 4450 ppm (4h)
Toluene, CAS: 108-88-3

PANTERA Product GmbH

28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 11 / 17

LC50, inhalative, Rat, 25,7 - 30 mg/L (4h)

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, C7, n-alkanes, isoalkanes, cyclics

Eye, Rabbit, In vivo study, non-irritating

Skin corrosion/irritation

Irritant

Substance

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

dermal, Rabbit, OECD 404, irritant

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

dermal, Rabbit, OECD 404, irritant

Respiratory or skin sensitisation

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

Substance

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

No information available.

Specific target organ toxicity — single exposure

Vapours may cause drowsiness and dizziness.

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, 8117 mg/m³, negativ

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

NOAEC, inhalative, Rat, 12470 mg/m³, Study, negativ**Mutagenicity**

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

Substance

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

No information available.

Reproduction toxicityThis product contains one or more substances of categorie Repr. 2 (CLP).
CAS: 108-88-3

Substance

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

NOAEC, inhalative, Rat, 31680 mg/m³, In vivo study, negativ**Carcinogenicity**

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

Substance

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

No information available.

PANTERA Product GmbH

28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 12 / 17

Aspiration hazard Based on available data, the classification criteria are met.
 $v < 20,5 \text{ mm}^2/\text{s}$ (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

Endocrine disrupting properties No information available.

Other information none

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, (72h), Pseudokirchneriella subcapitata, 10 - 30 mg/l
EC50, (48h), Daphnia magna, 3 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, (72h), Algae, 225 mg/L
EC50, (48h), Crustacea, 1,3 g/L
EC10, (96h), Algae, 134 mg/L

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 13 / 17

12.2 Persistence and degradability

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

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.
 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.
 Untaminated packaging may be taken for recycling.

Waste no. (recommended)

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

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

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01 Page 14 / 17

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 (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

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 15 / 17

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

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

15.2 Chemical safety assessment

not applicable

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

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.
H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H225 Highly flammable liquid and vapour.

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 16 / 17

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)
 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

SECTION 2 been added: P101 If medical advice is needed, have product container or label at hand.
 SECTION 2 been added: P102 Keep out of reach of children.
 SECTION 2 been added: P312 Call a POISON CENTER / doctor if you feel unwell.
 SECTION 2 been added: P405 Store locked up.
 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: 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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Date printed 28.10.2021, Revision 27.10.2021

Version 01

Page 17 / 17

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