

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01

Page 1 / 20

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

1.1 Product identifier

Pantera Primer

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
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Safety Data Sheet	sdb@chemiebuero.de
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1.4 Emergency telephone number

Advisory body	GIZ-Nord; +49 (0)551 19 240
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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.
Eye Irrit. 2: H319 Causes serious eye irritation.
Skin Irrit. 2: H315 Causes skin irritation.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.
Repr. 2: H361d Suspected of damaging the unborn child.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.
STOT SE 3: H336 May cause drowsiness or dizziness.

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01

Page 2 / 20

2.2 Label elements

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

Hazard pictograms



Signal word

DANGER

Contains:

Ethyl acetate

Toluene

Propan-2-ol

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

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

H361d Suspected of damaging the unborn child.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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

P260 Do not breathe vapours.

P280 Wear protective gloves / eye protection / face protection.

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

P331 Do NOT induce vomiting.

P308+P311 IF exposed or concerned: Call a POISON CENTER / doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling

Contains: Methyl methacrylate, Butyl methacrylate. EUH208 May produce an allergic reaction.

2.3 Other hazards

Physico-chemical hazards

Contact with moisture liberates Methanol.

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 26.10.2021

Version 01

Page 3 / 20

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
30 - <50	Ethyl acetate
	CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 - EUH066
20 - <40	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
20 - <40	Propan-2-ol
	CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336
1 - <3	Butan-1-ol
	CAS: 71-36-3, EINECS/ELINCS: 200-751-6, EU-INDEX: 603-004-00-6, Reg-No.: 01-2119484630-38-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H302 - Eye Dam. 1: H318 - STOT SE 3: H336 - Skin Irrit. 2: H315 - STOT SE 3: H335
0,1 - <1	Methyl methacrylate
	CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6, Reg-No.: 01-2119452498-28-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 - STOT SE 3: H335
0,1 - <1	Butyl methacrylate
	CAS: 97-88-1, EINECS/ELINCS: 202-615-1, EU-INDEX: 607-033-00-5, Reg-No.: 01-2119486934-28-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - STOT SE 3: H335

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

Remove contaminated soaked clothing immediately and dispose of safely.

Inhalation

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

Skin contact

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

Eye contact

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

Ingestion

Consult a doctor immediately.
Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam.
Dry powder.
Carbon dioxide.

Extinguishing media that must not be used

Full water jet.

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01

Page 4 / 20

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.

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

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.

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

Provide good room ventilation even at ground level (vapours are heavier than air).

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

Ignitable mixtures can be formed in the empty container.

Take precautionary measures against static discharges.

Vapours can form an explosive mixture with air.

Apparates and equipments must be conform in accordance to standard of storage and handling of flammable products.

Connect equipment to earth.

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

Remove soiled or soaked clothing immediately.

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 in a well-ventilated place.

Keep container tightly closed.

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 26.10.2021

Version 01

Page 5 / 20

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Ethyl acetate
CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX
Long-term exposure: 200 ppm, 730 mg/m ³
Short-term exposure (15-minute): 400 ppm, 1460 mg/m ³
Propan-2-ol
CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX
Long-term exposure: 400 ppm, 999 mg/m ³
Short-term exposure (15-minute): 500 ppm, 1250 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
Butan-1-ol
CAS: 71-36-3, EINECS/ELINCS: 200-751-6, EU-INDEX: 603-004-00-6, Reg-No.: 01-2119484630-38-XXXX
Long-term exposure: 50 ppm, Sk
Short-term exposure (15-minute): 50 ppm, 154 mg/m ³
Methyl methacrylate
CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6, Reg-No.: 01-2119452498-28-XXXX
Long-term exposure: 50 ppm, 208 mg/m ³
Short-term exposure (15-minute): 100 ppm, 416 mg/m ³
Methanol
CAS: 67-56-1, EINECS/ELINCS: 200-659-6, EU-INDEX: 603-001-00-X, Reg-No.: 01-2119433307-44-XXXX
Long-term exposure: 200 ppm, 266 mg/m ³ , Sk
Short-term exposure (15-minute): 250 ppm, 333 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Ethyl acetate
CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX
Eight hours: 200 ppm, 734 mg/m ³
Short-term (15-minute): 400 ppm, 1468 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
Eight hours: 50 ppm, 192 mg/m ³ , H
Short-term (15-minute): 100 ppm, 384 mg/m ³
Methyl methacrylate
CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6, Reg-No.: 01-2119452498-28-XXXX
Eight hours: 50 ppm
Short-term (15-minute): 100 ppm
Methanol
CAS: 67-56-1, EINECS/ELINCS: 200-659-6, EU-INDEX: 603-001-00-X, Reg-No.: 01-2119433307-44-XXXX
Eight hours: 200 ppm, 260 mg/m ³ , H

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01

Page 6 / 20

DNEL

Substance
Ethyl acetate, CAS: 141-78-6
Industrial, dermal, Long-term - systemic effects, 63 mg/kg bw/d
Industrial, inhalative, Acute - local effects, 1468 mg/m ³
Industrial, inhalative, Long-term - systemic effects, 734 mg/m ³
Industrial, inhalative, Long-term - local effects, 734 mg/m ³
Industrial, inhalative, Acute - systemic effects, 1468 mg/m ³
general population, dermal, Long-term - systemic effects, 37 mg/kg bw/d
general population, inhalative, Acute - local effects, 734 mg/m ³
general population, inhalative, Acute - systemic effects, 734 mg/m ³
general population, inhalative, Long-term - local effects, 367 mg/m ³
general population, inhalative, Long-term - systemic effects, 367 mg/m ³
general population, oral, Long-term - systemic effects, 4,5 mg/kg bw/d
Methyl methacrylate, CAS: 80-62-6
Industrial, dermal, Acute - local effects, 1,5 mg/cm ²
Industrial, dermal, Long-term - local effects, 1,5 mg/cm ²
Industrial, dermal, Long-term - systemic effects, 13,67 mg/kg bw/d
Industrial, inhalative, Long-term - local effects, 208 mg/m ³
Industrial, inhalative, Long-term - systemic effects, 348,4 mg/m ³
Industrial, inhalative, Acute - local effects, 416 mg/m ³
general population, oral, Long-term - systemic effects, 8,2 mg/kg bw/day
general population, inhalative, Long-term - local effects, 104 mg/m ³
general population, dermal, Acute - local effects, 1,5 mg/cm ²
general population, dermal, Long-term - local effects, 1,5 mg/cm ²
general population, inhalative, Long-term - systemic effects, 74,3 mg/m ³
general population, inhalative, Acute - local effects, 208 mg/m ³
general population, dermal, Long-term - systemic effects, 8,2 mg/kg bw/d
Toluene, CAS: 108-88-3
Industrial, inhalative, Acute - local effects, 384 mg/m ³
Industrial, inhalative, Long-term - systemic effects, 192 mg/m ³
Industrial, inhalative, Acute - systemic effects, 384 mg/m ³
Industrial, inhalative, Long-term - local effects, 192 mg/m ³
Industrial, dermal, Long-term - systemic effects, 384 mg/kg bw/day
general population, inhalative, Acute - systemic effects, 226 mg/m ³
general population, inhalative, Acute - local effects, 226 mg/m ³
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, oral, Long-term - systemic effects, 8,13 mg/kg bw/day
Butan-1-ol, CAS: 71-36-3
Industrial, inhalative (vapor), Long-term - local effects, 310 mg/m ³
general population, dermal, Long-term - systemic effects, 3,125 mg/kg bw/day
general population, oral, Long-term - systemic effects, 1,562 mg/kg bw/day
general population, inhalative (vapor), Long-term - systemic effects, 55,357 mg/m ³
general population, inhalative (vapor), Long-term - local effects, 155 mg/m ³
Propan-2-ol, CAS: 67-63-0
Industrial, dermal, Long-term - systemic effects, 888 mg/kg bw/day

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01

Page 7 / 20

Industrial, inhalative (vapor), Long-term - systemic effects, 500 mg/m³

general population, inhalative (vapor), Long-term - systemic effects, 89 mg/m³

general population, oral, Long-term - systemic effects, 26 mg/kg

general population, dermal, Long-term - systemic effects, 319 mg/kg bw/day

Butyl methacrylate, CAS: 97-88-1

Industrial, inhalative, Long-term - local effects, 409 mg/m³

Industrial, dermal, Long-term - systemic effects, 5 mg/kg bw/day

Industrial, inhalative, Long-term - systemic effects, 415,9 mg/m³

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

general population, inhalative, Long-term - systemic effects, 66,5 mg/m³

PNEC

Substance

Ethyl acetate, CAS: 141-78-6

sewage treatment plants (STP), 650 mg/l

freshwater, 240 µg/L

seawater, 24 µg/L

sediment (freshwater), 1,15 mg/kg

soil, 0,148 mg/kg

oral (food), 200 mg/kg

sediment (seawater), 0,115 mg/kg

Methyl methacrylate, CAS: 80-62-6

freshwater, 0,94 mg/L

seawater, 0,094 mg/L

sewage treatment plants (STP), 10 mg/L

sediment (freshwater), 10,2 mg/kg sediment dw

sediment (seawater), 1,48 mg/kg soil dw

sediment (seawater), 0,102 mg/kg sediment dw

Toluene, CAS: 108-88-3

sewage treatment plants (STP), 13,61 mg/L

sediment (freshwater), 16,39 mg/kg

soil, 2,89 mg/kg

sediment (seawater), 16,39 mg/kg

freshwater, 0,68 mg/L

seawater, 0,68 mg/L

Butan-1-ol, CAS: 71-36-3

sewage treatment plants (STP), 2476 mg/l

sediment (seawater), 0,032 mg/kg

freshwater, 0,082 mg/l

soil, 0,017 mg/kg

seawater, 0,008 mg/l

sediment (freshwater), 0,324 mg/kg

Propan-2-ol, CAS: 67-63-0

seawater, 140,9 mg/l

freshwater, 140,9 mg/l

sediment (freshwater), 552 mg/kg

sediment (seawater), 552 mg/kg

soil, 28 mg/kg

sewage treatment plants (STP), 2251 mg/l

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01

Page 8 / 20

oral (food), 160 mg/kg food
Butyl methacrylate, CAS: 97-88-1
seawater, 0,002 mg/L
sewage treatment plants (STP), 31,7 mg/l
sediment (freshwater), 4,73 mg/kg
sediment (seawater), 0,473 mg/kg
soil, 0,935 mg/kg
freshwater, 0,017 mg/L

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 Viton, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Solvent-resistant protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not inhale gases/vapours. 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. It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Multi-purpose filter ABEK. (DIN EN 14387)
Thermal hazards	no
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01

Page 9 / 20

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]	> 76
Flash point [°C]	- 4
Flammability (solid, gas) [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/cm ³]	not determined
Relative density	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	partially miscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	< 7 mm ² /s (40 °C)
Relative vapour density	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Auto-ignition temperature	not applicable
Decomposition temperature [°C]	not determined
Particle characteristics	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 highly flammable gases/vapours.

Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

See SECTION 7

Strong heating.

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01

Page 10 / 20

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

Flammable gases/vapours.

Contact with moisture liberates Methanol.

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01 Page 11 / 20

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

Product
ATE-mix, oral, Rat, > 5000 mg/kg
Substance
Ethyl acetate, CAS: 141-78-6
LD50, oral, Rat, 5620 mg/kg
Methyl methacrylate, CAS: 80-62-6
LD50, oral, Rat, > 5000 mg/kg (OECD 401)
Toluene, CAS: 108-88-3
LD50, oral, Rat, 5580 mg/kg
Butan-1-ol, CAS: 71-36-3
LD50, oral, Rat (female), 2292 mg/kg bw, OECD 401
Propan-2-ol, CAS: 67-63-0
LD50, oral, Rat, 4570 mg/kg
Butyl methacrylate, CAS: 97-88-1
LD50, oral, Rat, > 2000 mg/kg

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

Substance
Ethyl acetate, CAS: 141-78-6
LD50, dermal, Rabbit, 20000 mg/kg
Methyl methacrylate, CAS: 80-62-6
LD50, dermal, Rabbit, > 5000 mg/kg
Toluene, CAS: 108-88-3
LD50, dermal, Rabbit, 12,124 mg/kg
Butan-1-ol, CAS: 71-36-3
LD50, dermal, Rabbit, 3400 mg/kg
Propan-2-ol, CAS: 67-63-0
LD50, dermal, Rabbit, 13400 mg/kg
Butyl methacrylate, CAS: 97-88-1
LD50, dermal, Rabbit, > 2000 mg/kg

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

Substance
Ethyl acetate, CAS: 141-78-6
LC50, inhalative, Rat, 5,86 mg/l 4 h (Lit.)
Methyl methacrylate, CAS: 80-62-6
LC50, inhalative, Rat, 29,8 mg/l
Toluene, CAS: 108-88-3
LC50, inhalative, Rat, 25,7 mg/L (4h) (OECD 403)
Butan-1-ol, CAS: 71-36-3
LC50, inhalative, Rat, > 17,76 mg/l (4 h)
Propan-2-ol, CAS: 67-63-0
LC50, inhalative, Rat, 30 mg/l/4h

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01 Page 12 / 20

Serious eye damage/irritation Irritant

Substance
Ethyl acetate, CAS: 141-78-6
Eye, Rabbit, Study, irritant
Methyl methacrylate, CAS: 80-62-6
Eye, non-irritating
Toluene, CAS: 108-88-3
Eye, Rabbit, OECD 405, non-irritating
Butan-1-ol, CAS: 71-36-3
Eye, Rabbit, OECD 405, corrosive
Propan-2-ol, CAS: 67-63-0
Eye, Rabbit, Study, irritant

Skin corrosion/irritation Irritant

Substance
Ethyl acetate, CAS: 141-78-6
dermal, Rabbit, negativ
Study, negativ
Methyl methacrylate, CAS: 80-62-6
dermal, irritant
Toluene, CAS: 108-88-3
dermal, Rabbit, Study, irritant
Butan-1-ol, CAS: 71-36-3
dermal, Rabbit, irritant
Propan-2-ol, CAS: 67-63-0
dermal, Rabbit, non-irritating

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
May produce an allergic reaction.

Substance
Ethyl acetate, CAS: 141-78-6
dermal, Guinea pig, OECD 406, negativ
Methyl methacrylate, CAS: 80-62-6
inhalative, no adverse effect observed
dermal, sensitising
Toluene, CAS: 108-88-3
No information available.
Butan-1-ol, CAS: 71-36-3
dermal, Mouse (female), OECD 429, non-sensitizing

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

Substance
Ethyl acetate, CAS: 141-78-6
positive
Methyl methacrylate, CAS: 80-62-6
inhalative, irritant
Toluene, CAS: 108-88-3

PANTERA Product GmbH

28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01

Page 13 / 20

positive

Propan-2-ol, CAS: 67-63-0

NOAEL, oral, Rat, 700 mg/kg bw/day, OECD 426, positive

Specific target organ toxicity — repeated exposure — May cause damage to organs through prolonged or repeated exposure through inhalation.

Substance

Ethyl acetate, CAS: 141-78-6

NOAEL, oral, Rat, 900 mg/kg bw/day, Study, negativ

NOAEC, inhalative, Rat, 1.28 mg/L, Study, negativ

Methyl methacrylate, CAS: 80-62-6

NOAEL, oral, Rat, 124 mg/kg bw/day (chronic), no adverse effect observed

NOAEC, inhalative, Rat, 2080 mg/m³ (chronic), no adverse effect observed

Toluene, CAS: 108-88-3

positive

Butan-1-ol, CAS: 71-36-3

NOAEL, oral, Rat, 125 mg/kg bw/day, no adverse effect observed

NOAEC, inhalative, Rat, 1500 mg/m³, no adverse effect observed

Propan-2-ol, CAS: 67-63-0

NOAEC, inhalative, Rat, 12500 mg/m³, OECD 451, negativ**Mutagenicity**

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

Substance

Methyl methacrylate, CAS: 80-62-6

in vivo, no adverse effect observed

in vitro, The effects observed are not sufficient for classification.

Toluene, CAS: 108-88-3

mouse, Ames-test, negativ

Butan-1-ol, CAS: 71-36-3

in vivo, OECD 474, negativ

in vitro, OECD 476, negativ

Reproduction toxicity

Suspected of damaging the unborn child.

This product contains one or more substances of categorie Repr. 2 (CLP).

CAS: 108-88-3

Substance

Ethyl acetate, CAS: 141-78-6

NOAEL, oral, mouse, 26400 mg/kg bw/day, Study, negativ

NOAEC, inhalative, Rat, 22 000 mg/m³, Study, negativ

Methyl methacrylate, CAS: 80-62-6

NOAEL, oral, Rabbit, 450 mg/kg bw/day (subacute), no adverse effect observed

NOAEC, inhalative, Rat, 8 300 mg/m³ (subacute), no adverse effect observed

Toluene, CAS: 108-88-3

inhalative, Rat, Study, positive

Butan-1-ol, CAS: 71-36-3

NOAEL, oral, Rat, 1454 mg/kg bw/day, OECD 414, adverse effect observed

NOAEL, oral, Rat, 500 mg/kg bw/day, no adverse effect observed

NOAEC, inhalative, Rat, 6189 mg/m³, no adverse effect observed

Propan-2-ol, CAS: 67-63-0

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01

Page 14 / 20

NOAEL, oral, Rat, 853 mg/kg bw/day, OECD 415, negativ

Carcinogenicity

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

Substance

Methyl methacrylate, CAS: 80-62-6

NOAEL, oral, Rat, 90,3 mg/kg bw/day (chronic), no adverse effect observed

NOAEC, inhalative, Rat, 2050 mg/m³ (chronic), no adverse effect observed

Propan-2-ol, CAS: 67-63-0

NOAEC, inhalative, Rat, 12290 mg/m³, OECD 451, negativ**Aspiration hazard**May be fatal if swallowed and enters airways.
 $v < 20,5 \text{ mm}^2/\text{s}$ (40 °C)**General remarks**

Toxicological data of complete product are not available.

11.2 Information on other hazards**Endocrine disrupting properties**

Contains no ingredients with endocrine-disrupting properties.

Other information

none

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01 Page 15 / 20

SECTION 12: Ecological information

12.1 Toxicity

Substance
Ethyl acetate, CAS: 141-78-6
LC50, (96h), Pimephales promelas, 230 mg/l (IUCLID)
EC50, (48h), Daphnia magna, 717 mg/l (IUCLID)
EC50, (48h), Desmodesmus subspicatus, 3300 mg/l (IUCLID)
EC10, (16h), Pseudomonas putida, 2900 mg/l (IUCLID)
Methyl methacrylate, CAS: 80-62-6
LC50, (96h), Oncorhynchus mykiss, > 79 mg/l (OECD 203)
EC50, (48h), Daphnia magna, 69 mg/l (OECD 202)
EC50, (72h), Selenastrum capricornutum, > 110 mg/l (OECD 201)
NOEC, Danio rerio, 9,4 mg/l (OECD 210)
NOEC, (21d), Daphnia magna, 37 mg/l (OECD 202-2)
Toluene, CAS: 108-88-3
LC50, (96h), Oncorhynchus mykiss, 5,8 mg/L (ECOTOX- Database)
EC50, (48h), Daphnia magna, 6 mg/L
EC50, (24h), Pseudokirchneriella subcapitata, 10,00 mg/L
Butan-1-ol, CAS: 71-36-3
LC50, (96h), Scenedesmus subspicatus, > 500 mg/l
LC50, (96h), Pimephales promelas, 1376 mg/l
LC50, (96h), Leuciscus idus, 1200 mg/l
EC50, Pseudomonas putida, 4400 mg/l (17 h)
EC50, (48h), Daphnia magna, 1328 mg/l
EC50, (72h), Desmodesmus subspicatus, > 500 mg/l
Propan-2-ol, CAS: 67-63-0
EC50, (72h), Scenedesmus subspicatus, > 1000 mg/l
Butyl methacrylate, CAS: 97-88-1
LC50, (96h), Pimephales promelas, 11 mg/l
EC50, (48h), Daphnia magna, 32 mg/l
EC50, (96h), Pseudokirchneriella subcapitata, 57 mg/l

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.

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01

Page 16 / 20

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

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

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 26.10.2021

Version 01

Page 17 / 20

14.2 UN proper shipping name

Transport by land according to ADR/RID	Flammable liquid, n.o.s. (Toluene, Ethyl acetate)
- 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. (Toluene, Ethyl acetate)
- Classification Code	F1
- Label	
Marine transport in accordance with IMDG	Flammable liquid, n.o.s. (Toluene, Ethyl acetate)
- EMS	F-E, S-E
- Label	
- IMDG LQ	1 I
Air transport in accordance with IATA	Flammable liquid, n.o.s. (Toluene, Ethyl acetate)
- 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

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01 Page 18 / 20

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

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)

H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H318 Causes serious eye damage.
H302 Harmful if swallowed.
H226 Flammable liquid and vapour.

H315 Causes skin irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H361d Suspected of damaging the unborn child.
EUH066 Repeated exposure may cause skin dryness or cracking.
H336 May cause drowsiness or dizziness.
H319 Causes serious eye irritation.
H225 Highly flammable liquid and vapour.

PANTERA Product GmbH

28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01

Page 19 / 20

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)
 Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
 Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
 STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)
 Repr. 2: H361d Suspected of damaging the unborn child. (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)

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 28.10.2021, Revision 26.10.2021

Version 01

Page 20 / 20

Modified position

SECTION 2 been added: P308+P311 IF exposed or concerned: Call a POISON CENTER / doctor.

SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 2 been added: P405 Store locked up.

SECTION 2 been added: P102 Keep out of reach of children.

SECTION 2 been added: P101 If medical advice is needed, have product container or label at hand.

SECTION 2 been added: Contact with moisture liberates Methanol.

SECTION 6 been added: Use personal protective equipment (protective gloves, safety glasses, protective clothing).

SECTION 11 been added: This product contains one or more substances of categorie Repr. 2 (CLP).

SECTION 11 been added: May produce an allergic reaction.

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 11 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.

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