



Safety Data Sheet according to  
Regulation (EC) No. 1907/2006  
(REACH)

Pantasol Cleaner

Print date 05.07.2021

Revision date 05.07.2021

Version 1.1

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

### 1.1 Product identifier

Trade name/designation Pantasol Cleaner

Article no. (user): 4010

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses

##### Product categories [PC]

PC35 Washing and cleaning products (including solvent based products)

### 1.3 Details of the supplier of the safety data sheet

#### Supplier

Pantera Product GmbH

Simon-Bolivar-Straße 29

DE-28197 Bremen

Telephone: +49 (0) 421 – 520 80 780

Telefax: +49 (0) 421 – 520 80 789

E-mail: info@panteraproduct.de

www.panteraproduct.de

### 1.4 Emergency telephone number

Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein, Universität Göttingen (GIZ-Nord), Telefon 0551 / 19 240

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

#### health hazards

Asp. Tox. 1

##### hazard statements for health hazards

H304 May be fatal if swallowed and enters airways.

##### health hazards

Skin Irrit. 2

##### hazard statements for health hazards

H315 Causes skin irritation.

##### health hazards

Eye Irrit. 2

##### hazard statements for health hazards

H319 Causes serious eye irritation.

##### health hazards

STOT SE 3

##### hazard statements for health hazards

H336 May cause drowsiness or dizziness.

#### Physical hazards

Aerosol 1

##### hazard statements for physical hazards

H222 H229 Extremely flammable aerosol. Pressurized container: May burst if heated.



Safety Data Sheet according to  
Regulation (EC) No. 1907/2006  
(REACH)

**Pantasol Cleaner**

Print date 05.07.2021

Revision date 05.07.2021

Version 1.1

## Environmental hazards

Aquatic Chronic 2

### hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

### remark

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## 2.2 Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

#### Hazard components for labelling

Enthält: Kohlenwasserstoffe, C7, n-Alkane, Iso-Alkane, zyklisch (CAS: 64742-49-0), Aceton (CAS: 67-64-1)  
contains: hydrocarbons, C7, n-alkanes, iso-alkanes, cycl. (CAS: 64742-49-0), acetone (CAS: 67-64-1)

#### Hazard pictograms



GHS02



GHS07



GHS09

#### Signal word

Danger

#### Hazard statements

##### Hazard statements for physical hazards

H222 H229 Extremely flammable aerosol. Pressurized container: May burst if heated.

##### hazard statements for health hazards

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

##### Hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

##### General:

P102 Keep out of reach of children.

##### Prevention

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

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P273 Avoid release to the environment.

##### Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER if you feel unwell.

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

##### Storage:

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.



**Safety Data Sheet according to  
Regulation (EC) No. 1907/2006  
(REACH)**

**Pantasol Cleaner**

Print date 05.07.2021  
Revision date 05.07.2021  
Version 1.1

**Disposal:**

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

**Other labelling**

**Labelling for contents according to regulation (EC) No. 648/2004:**

>=30%

aliphatic hydrocarbons

**Maximum VOC content (g/L) of the product in a ready to use condition:** 702 g/L

**2.3 Other hazards**

**Adverse physicochemical effects**

Caution! Container under pressure. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**SECTION 3: Composition / information on ingredients**

**Additional information**

Full text of H- and EUH-phrases: see section 16.

**3.1/3.2 Substances/Mixtures**

**Hazardous ingredients**

acetone	10 - 25 %
CAS 67-64-1	
EC 200-662-2	
INDEX 606-001-00-8	
Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336	
propane	2,5 - 10 %
CAS 74-98-6	
EC 200-827-9	
INDEX 601-003-00-5	
Flam. Gas 1, H220 / Press. Gas, / Compr. Gas, H280	
isobutane	2,5 - 10 %
CAS 75-28-5	
EC 200-857-2	
INDEX 601-004-00-0	
Flam. Gas 1, H220 / Press. Gas, / Liquef. Gas, H280	
n-hexane	<2,5 %
CAS 110-54-3	
EC 203-777-6	
INDEX 601-037-00-0	
Flam. Liq. 2, H225 / Repr. 2, H361f / Asp. Tox. 1, H304 / STOT RE 2, H373 / Skin Irrit. 2, H315 / STOT SE 3, H336 / Aquatic Chronic 2, H411	
Carbon dioxide	2,5 - 10 %
CAS 124-38-9	
EC 204-696-9	



**Safety Data Sheet according to  
Regulation (EC) No. 1907/2006  
(REACH)**

**Pantasol Cleaner**

Print date 05.07.2021  
Revision date 05.07.2021  
Version 1.1

---

hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics 50 - 100 %  
CAS 64742-49-0  
EC 927-510-4  
REACHNo 01-2119475515-33  
Asp. Tox. 1, H304 / Skin Irrit. 2, H315 / STOT SE 3, H336 / Aquatic  
Chronic 2, H411 / Flam. Liq. 2, H225

**Additional information**

Full text of H- and EUH-statements: see section 16.

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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Never give anything by mouth to an unconscious person or a person with cramps.

**Following inhalation**

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

**Following skin contact**

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

**After eye contact**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

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

**Symptoms**

No symptoms known up to now.

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

**Notes for the doctor**

Treat symptomatically.

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**SECTION 5: Firefighting measures**

**Additional information**

Burning produces heavy smoke. Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**5.1 Extinguishing media**

**Suitable extinguishing media**

Dry extinguishing powder  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Water mist

**Unsuitable extinguishing media**

Full water jet

**5.2 Special hazards arising from the substance or mixture**

**Hazardous combustion products**

Can be released in case of fire:  
Carbon dioxide (CO<sub>2</sub>)

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**Pantasol Cleaner**

Print date 05.07.2021

Revision date 05.07.2021

Version 1.1

---

Carbon monoxide

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus, protective clothing.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

##### Emergency procedures

Remove all sources of ignition. Provide adequate ventilation.

##### Personal precautions

Use personal protection equipment. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.

##### Protective equipment

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### For emergency responders

##### Personal protection equipment

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3 Methods and material for containment and cleaning up

#### For containment

##### Suitable material for taking up:

Sand

Kieselguhr

Earth

Universal binder

### 6.4 Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Protective measures

##### Advices on safe handling

Wear personal protection equipment (refer to section 8). Do not spray on naked flames or any incandescent material.

Avoid:

Inhalation of vapours or spray/mists

Skin contact

Eye contact

Do not breathe gas/fumes/vapour/spray.

##### Measures to prevent fire

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

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**Safety Data Sheet according to  
Regulation (EC) No. 1907/2006  
(REACH)**

**Pantasol Cleaner**

Print date 05.07.2021  
Revision date 05.07.2021  
Version 1.1

Use only antistatically equipped (spark-free) tools. Vapours can form explosive mixtures with air. Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

**Environmental precautions**

See section 8.

**7.2 Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep/Store only in original container. Keep container tightly closed. Ensure adequate ventilation of the storage area.

**Hints on joint storage**

**Materials to avoid**

Keep away from:

Food and feedingstuffs

Do not store together with:

Combustible substance

**Storage class**

Aerosol dispensers and lighters

**Storage class**

2B

**7.3 Specific end use(s)**

No data available

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational exposure limit values**

CAS No.	Substance name	LTV	STV	remark
124-38-9	Carbon dioxide	9000 mg/m <sup>3</sup>	5000 ppm	Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~
67-64-1	Acetone	1210 mg/m <sup>3</sup>	500 ppm	European Union Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~
110-54-3	n-Hexane	72 mg/m <sup>3</sup>	20 ppm	European Union Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~
				European Union

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (<http://limitvalue.ifa.dguv.de/>)

Monitoring and observation processes: GESTIS Analytical Methods (<http://amcaw.ifa.dguv.de/>)



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## Exposure limits at intended use

### Occupational exposure limit values

**Limit value type (country of origin):**

AGW (DE)

**Substance name** Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

**EC No.** 927-510-4

**Instantaneous value** 1000 mg/m<sup>3</sup>

**Overflow factor** 2

### DNEL-/PNEC-values

#### DNEL Consumer

**Substance name** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**type**

Long-term – inhalation, systemic effects

**Value** 447 mg/m<sup>3</sup>

**Substance name** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**type**

Long-term - dermal, systemic effects

**Value** 149 mg/kg

**Substance name** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**type**

Long-term - oral, systemic effects

**Value** 149 mg/kg

**Substance name** acetone

**type**

Long-term – inhalation, systemic effects

**Value** 200 mg/m<sup>3</sup>

**Substance name** acetone

**type**

Long-term - dermal, systemic effects

**Value** 62 mg/kg

**Substance name** acetone

**type**

Long-term - oral, systemic effects

**Value** 62 mg/kg

#### DNEL worker

**Substance name** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**type**

Long-term – inhalation, systemic effects

**Value** 2085 mg/m<sup>3</sup>

**Substance name** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**type**

Long-term - dermal, systemic effects

**Value** 300 mg/kg

**Substance name** acetone

**type**

Long-term – inhalation, systemic effects



Safety Data Sheet according to  
Regulation (EC) No. 1907/2006  
(REACH)

Pantasol Cleaner

Print date 05.07.2021  
Revision date 05.07.2021  
Version 1.1

**Value** 1210 mg/m<sup>3</sup>

**Substance name** acetone

**type**

Acute - inhalation, local effects

**Value** 2420 mg/m<sup>3</sup>

**Substance name** acetone

**type**

Long-term - dermal, systemic effects

**Value** 186 mg/kg

**PNEC**

**Value** 10,6 mg/L

**remark**

CAS 67-64-1

**PNEC type**

aquatic, freshwater

**Value** 21 mg/L

**remark**

CAS 67-64-1

**PNEC type**

aquatic, intermittent release

**Value** 1,06 mg/L

**remark**

CAS 67-64-1

**PNEC type**

aquatic, marine water

**Value** 100 mg/L

**remark**

CAS 67-64-1

**PNEC type**

sewage treatment plant

**Value** 30,4 mg/kg

**remark**

CAS 67-64-1

**PNEC type**

sediment, freshwater

**Value** 3,04 mg/kg

**remark**

CAS 67-64-1

**PNEC type**

sediment, marine water

**Value** 29,5 mg/kg

**remark**

CAS 67-64-1

**PNEC type**

soil





## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection

##### Suitable eye protection:

Eye glasses with side protection  
Face protection umbrella

#### Skin protection

##### Required properties:

DIN EN ISO 374-1:2018

##### remark

Breakthrough times and swelling properties of the material must be taken into consideration. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Body protection:

##### Required properties:

Schutzkleidung/ safety clothing (DIN EN ISO 13688:2013-12)  
Sicherheitsschuhe/ safety shoes (DIN EN ISO 20345:2012-04)

#### Respiratory protection

Respiratory protection necessary at:  
exceeding exposure limit values

##### Suitable respiratory protection apparatus:

Full-/half-/quarter-face masks (DIN EN 136/140)  
ABEK-P2

##### remark

Usually no personal respirative protection necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

##### Physical state

Aerosol

##### Colour

colourless  
clear

##### Odour

characteristic

	parameter	Method - source - remark
Evaporation rate		not determined
Melting point/freezing point		not determined
Boiling point or initial boiling point and boiling range		not determined
flammability		not determined
Upper explosion limit	10,9 Vol-%	(propellant)



**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**

**Pantasol Cleaner**

Print date 05.07.2021  
 Revision date 05.07.2021  
 Version 1.1

parameter	Method - source - remark
Upper explosion limit 13 Vol-%	(acetone)
lower explosion limit 1,5 Vol-%	(propellant)
lower explosion limit 2,1 Vol-%	(acetone)
Flash point (°C)	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not determined
pH	not determined
Soluble (g/L) in	not determined
Fat solubility	not determined
Water solubility	not determined
Partition coefficient: n-octanol/water	not determined
Vapour pressure <70 hPa	Temperature 20 °C
Vapour density	not determined
Relative density 0,73 g/cm <sup>3</sup>	Temperature 20 °C
particle characteristics	not determined

**9.2 Other information**

**Solvent content**

Value 88 %

**Physical hazards**

**Aerosols**

**Assessment/classification**

Extremely flammable aerosol (H222)

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No specific test data related to reactivity available for this product or its ingredients. This material is considered to be non-reactive under normal use conditions.

**10.2 Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3 Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4 Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid high temperatures or direct sunlight.

**10.5 Incompatible materials**

**Materials to avoid**

Oxidising agent, strong



Safety Data Sheet according to  
Regulation (EC) No. 1907/2006  
(REACH)

Pantasol Cleaner

Print date 05.07.2021

Revision date 05.07.2021

Version 1.1

---

## 10.6 Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

Carbon dioxide

Carbon monoxide

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Acute dermal toxicity

**ingredient** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**Acute dermal toxicity** >2920 mg/kg bw/day

##### Effective dose

LD50:

##### Species:

Rat

**ingredient** acetone

**Acute dermal toxicity** >2000 mg/kg

##### Effective dose

LD50:

##### Species:

Rat

##### Acute inhalation toxicity (vapour)

**ingredient** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**Acute inhalation toxicity (vapour)** 23300 mg/m<sup>3</sup>

##### Effective dose

LC50:

**Exposure time** 4 h

##### Species:

Rat

##### Method

OECD 403

**ingredient** acetone

**Acute inhalation toxicity (vapour)** >20 mg/L

##### Effective dose

LC50:

##### Species:

Rat

##### Acute oral toxicity

**ingredient** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**Acute oral toxicity** >5840 mg/kg bw/day

##### Effective dose

LD50:

##### Species:

Rat

**ingredient** acetone

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Safety Data Sheet according to  
Regulation (EC) No. 1907/2006  
(REACH)

Pantasol Cleaner

Print date 05.07.2021

Revision date 05.07.2021

Version 1.1

---

**Acute oral toxicity** >2000 mg/kg

**Effective dose**

LD50:

**Species:**

Rat

**skin corrosion/irritation**

**Assessment/classification**

Causes skin irritation.

**Serious eye damage/irritation**

**Assessment/classification**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

**Sensitisation to the respiratory tract**

**Assessment/classification**

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

**Skin sensitisation**

**Assessment/classification**

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

**STOT-single exposure**

**STOT SE 3**

**Narcotic effects**

**Assessment/classification**

May cause drowsiness or dizziness.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

**ingredient** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**Acute (short-term) fish toxicity** >13,4 mg/L

**Effective dose**

LL50:

**Test duration** 96 h

**species**

Oncorhynchus mykiss (Rainbow trout)

##### Acute (short-term) toxicity to crustacea

**ingredient** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**Acute (short-term) toxicity to crustacea** 3 mg/L

**Effective dose**

EL50:

**Test duration** 48 h

**species**

Daphnia magna (Big water flea)



**Method**

OECD 202

**Chronic (long-term) toxicity to aquatic invertebrate**

**ingredient** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**Chronic (long-term) toxicity to aquatic invertebrate** 1 mg/L

**Effective dose**

NOELR:

**Test duration** 21 d

**species**

Daphnia magna (Big water flea)

**Method**

OECD 211

**Chronic (long-term) fish toxicity**

**ingredient** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**Chronic (long-term) fish toxicity** 1,53 mg/L

**Effective dose**

NOELR:

**Test duration** 28 d

**species**

Oncorhynchus mykiss (Rainbow trout)

**Method**

QSAR Petrotox

**Acute (short-term) toxicity to algae and cyanobacteria**

**ingredient** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**Acute (short-term) toxicity to algae and cyanobacteria** 10 - 30 mg/L

**Effective dose**

EL50:

**Test duration** 72 h

**species**

Selenastrum capricornutum

**ingredient** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**Acute (short-term) toxicity to algae and cyanobacteria** 10 - 30 mg/L

**Effective dose**

ErC50:

**Test duration** 72 h

**species**

Pseudokirchneriella subcapitata

**Method**

OECD 201

**ingredient** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**Acute (short-term) toxicity to algae and cyanobacteria** 10 - 30 mg/L

**Effective dose**

EbC50:

**Test duration** 72 h

**species**

Pseudokirchneriella subcapitata



**Method**

OECD 201

**12.2 Persistence and degradability**

**Biodegradation**

**ingredient** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

**Degradation rate** 98 %

**Method**

OECD 301F

**Assessment/classification**

Readily biodegradable (according to OECD criteria).

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Directive 2008/98/EC (Waste Framework Directive)**

**Before intended use**

**Waste code product** 160504

**hazardous waste** Yes.

**Waste name**

gases in pressure containers (including halons) containing hazardous substances

**After intended use**

**Appropriate disposal / Product**

Waste disposal according to official state regulations.

**Waste code packaging** 150111

**hazardous waste** Yes.

**Waste name**

metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	1950	1950	1950
14.2 Proper Shipping Name	AEROSOLS (hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics)	AEROSOLS (hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics)	Aerosols, flammable (hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics)
14.3 Class(es)	2	2.1	2.1
14.4 Packing group			



**Safety Data Sheet according to  
Regulation (EC) No. 1907/2006  
(REACH)**

**Pantasol Cleaner**

Print date 05.07.2021  
Revision date 05.07.2021  
Version 1.1

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.5 ENVIRONMENTALLY HAZARDOUS	Yes.	Yes.	Yes.
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

**Additional information - Land transport (ADR/RID)**

Hazard label(s) 2.1  
Classification code 5F  
Limited quantity (LQ) 1 L  
tunnel restriction code D  
transport category 2

**Additional information - Sea transport (IMDG)**

Marine pollutant Yes.

**Additional information - Air transport (ICAO-TI / IATA-DGR)**

Limited quantity (LQ) 30

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation**

**Other regulations (EU)**

**Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).**

**Volatile organic compounds (VOC) content in percent by weight:** 88 weight-%

**VOC-value** 702 g/L

**To follow:**

Aerosol directive (75/324/EEC)

Regulation (EC) No. 648/2004 (Detergents regulation)

**15.2 Chemical Safety Assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information**

**Abbreviations and acronyms**

See overview table at [www.euphrac.eu](http://www.euphrac.eu)

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

**Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

See SECTION 2.1 (classification).

**Additional information**

Data arise from reference works and literature.

**Relevant R-, H- and EUH-phrases (Number and full text)**

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.



**Safety Data Sheet according to  
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**Pantasol Cleaner**

Print date 05.07.2021  
Revision date 05.07.2021  
Version 1.1

---

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility.

H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.