

Pantasol Light

Print date 02.11.2021 Revision date 26.10.2021

Version 2.0

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

1.1 Product identifier

Trade name/designation Pantasol Light

Unique Formula Identifier 2M5U-P4M3-C10U-TYWY

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

Importer/Only Representative

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

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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

STOT SE 3

hazard statements for health hazards

H336 May cause drowsiness or dizziness.

Physical hazards

Flam. Aerosol 1

hazard statements for physical hazards

H222 Extremely flammable aerosol.

Physical hazards

Flam. Aerosol 1



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hazard statements for physical hazards

H229 Pressurised container: May burst if heated.

Environmental hazards

Aquatic Chronic 3

hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

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, EC: 927-510-4) Contains: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (CAS: 654742-49-0, EC: 927-510-4)

Hazard pictograms







GHS02 Signal word

GHS07

GHS09

Danger

Hazard statements

Hazard statements for physical hazards

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

hazard statements for health hazards

H315 Causes skin 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 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/doctor/ if you feel unwell.

Storage:

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

Disposal:

P501 Dispose of contents/container to hazardous or special waste collection point.



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Special rules for supplemental label elements for certain mixtures

EUH208 Enthält d-Limonen. Kann allergische Reaktionen hervorrufen.

EUH208 Contains d-limonene. May produce an allergic reaction.

Other labelling

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

≥ 30%: aliphatische Kohlenwasserstoffe; Duftstoffe (Limonene, Citral, Linalool)

≥ 30% aliphatic hydrocarbons, perfumes (Limonene, Citral, Linalool)

Maximum VOC content (g/L) of the product in a ready to use condition: 685 - 686 g/L

2.3 Other hazards

Adverse physicochemical effects

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

propan-2-ol 2,5 - <10 %

CAS 67-63-0

EC 200-661-7

INDEX 603-117-00-0

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, / Liquef. 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

Press. Gas, / Compr. Gas, H280



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d-limonene

<1 %

CAS 5989-27-5 EC 227-813-5

INDEX 601-029-00-7

Flam. Liq. 3, H226 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

50 - 100 %

CAS 64742-49-0 EC 927-510-4

Asp. Tox. 1, H304 / Skin Irrit. 2, H315 / STOT SE 3, H336 / Aquatic Chronic 2, H411 / Flam. Liq. 2, H225

Specific concentration limit (SCL):

Hazard classes and hazard categories

n-Hexan

STOT RE 2; H373: C >= 5%

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. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

Following skin contact

Wash immediately with:

Water

Do not let product dry on skin. 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.

Following ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

If decomposition products are inhaled the following symptoms can occur:

Respiratory complaints

Cough

Effects

Nausea

Symptoms

Dizziness

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

Foam

Carbon dioxide (CO2)

Extinguishing powder

Water spray jet

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 (CO2)

Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters

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

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

Use appropriate respiratory protection.

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



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6.4 Reference to other sections

Disposal: see section 13

Personal protection equipment: see section 8

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

Measures to prevent fire

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

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

No data available



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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/m³ 5000 ppm Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~

72 mg/m³ 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/)

Exposure limits at intended use

n-Hexane

Occupational exposure limit values

Limit value type (country of origin):

AGW (DE)

110-54-3

Substance name D-Limonen

CAS No. 5989-27-5

Instantaneous value 28 mg/m³

Overflow factor 4

Limit value type (country of origin):

AGW (DE)

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

EC No. 927-510-4

Instantaneous value 700 mg/m³

Overflow factor 2

Limit value type (country of origin):

AGW (DE)

Substance name carbon dioxide

CAS No. 124-38-9

Instantaneous value 9100 mg/m³

Overflow factor 2

Limit value type (country of origin):

AGW (DE)

Substance name isobutane

CAS No. 75-28-5

Instantaneous value 2400 mg/m³

Overflow factor 4



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Limit value type (country of origin):

AGW (DE)

Substance name n-hexane

CAS No. 110-54-3

Instantaneous value 180 mg/m³

Overflow factor 8

Limit value type (country of origin):

AGW (DE)

Substance name propane

CAS No. 74-98-6

Instantaneous value 1800 mg/m³

Overflow factor 4

Limit value type (country of origin):

AGW (DE)

Substance name propane-2-ol

CAS No. 67-63-0

Instantaneous value 500 mg/m³

Overflow factor 2

DNEL-/PNEC-values

DNEL Consumer

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

type

long-term

remark

inhalativ

Value 447 mg/m³

Substance name propan-2-ol

type

long-term

remark

inhalativ

Value 89 mg/m³

DNEL worker

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

type

long-term

remark

inhalativ

Value 2085 mg/m³

Substance name propan-2-ol

type

long-term

remark

inhalativ

Value 500 mg/m³



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PNEC

Value 140,9 mg/L

remark

propan-2-ol (67-63-0)

PNEC type

aquatic, freshwater

8.2 Exposure controls

Appropriate engineering controls

Organisational measures to prevent exposure

not determined

Substance/mixture related measures to prevent exposure during identified uses

not determined

Fresh air (open windows and doors) is necessary.

Technical measures to prevent exposure

Reduce exposure to fume by keeping operating temperatures as low as possible taking into account occupational exposure limits and safe handling temperatures (see Section 7). Where practicable handle within an enclosed process. Alternatively local exhaust ventilation should be considered.

Personal protection equipment

Eye/face protection

Suitable eye protection:

Eye glasses with side protection

Skin protection

Suitable material:

NBR (Nitrile rubber)

Butyl caoutchouc (butyl rubber)

FKM (fluoro rubber)

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:

antistatic

flame-resistant

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values

Suitable respiratory protection apparatus:

Combination filtering device

remark

Usually no personal respirative protection necessary.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

Aerosol

Colour

colourless

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)
lower explosion limit	1,5 Vol-%		(propellant)
Flash point (°C)			not determined
Auto-ignition temperature			not determined
Decomposition temperature			not determined
рН			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	41 hPa	Temperature 20 °C	(propan-2-ol)
Vapour density			not determined
Relative density	0,712 kg/L	Temperature 20 °C	(liquid)
particle characteristics			not determined
9.2 Other information			
Solvent content Value 96 %			

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.



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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

In case of warming:

Danger of bursting container.

10.5 Incompatible materials

Materials to avoid

Oxidising agent, strong

10.6 Hazardous decomposition products

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

Carbon dioxide

Carbon monoxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Aspiration hazard

Assessment/classification

May be fatal if swallowed and enters airways.

Acute toxicity

Acute dermal toxicity

ingredient Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Acute dermal toxicity >2920 mg/kg

Effective dose

LD50:

Species:

Rat

ingredient propan-2-ol

Acute dermal toxicity >2000 mg/kg

Effective dose

LD50:

Species:

Rabbit

Acute inhalation toxicity (vapour)

ingredient Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Acute inhalation toxicity (vapour) >23300 mg/m³

Effective dose

LC50:

Exposure time 4 h

Species:

Rat

Method

OECD 403

ingredient propan-2-ol



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Acute inhalation toxicity (vapour) >20 mg/L

Effective dose

LC50:

Exposure time 4 h

Species:

Rat

Acute oral toxicity

ingredient Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Acute oral toxicity >5840 mg/kg

Effective dose

LD50:

Species:

Rat

ingredient propan-2-ol

Acute oral toxicity >2000 mg/kg

Effective dose

LD50:

Species:

Rat

skin corrosion/irritation

ingredient Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Assessment/classification

Causes skin irritation.

Serious eye damage/irritation

Assessment/classification

slightly irritant but not relevant for classification.

Assessment/classification

slightly irritant

Respiratory or skin sensitisation

Sensitisation to the respiratory tract

Assessment/classification

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Overall Assessment on CMR properties

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

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 propan-2-ol

Acute (short-term) fish toxicity 100 - 1000 mg/L

Effective dose

LC50:

species

Oncorhynchus mykiss (Rainbow trout)

ingredient Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

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

Effective dose

LL50:

Test duration 96 h

species

Oncorhynchus mykiss (Rainbow trout)

Method

OECD 203

Acute (short-term) toxicity to crustacea

ingredient Hydrocarbons, C7, n-alkanes, isoalkanes, 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, isoalkanes, 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, isoalkanes, cyclics

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

Effective dose

NOELR:



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Test duration 28 d

species

Oncorhynchus mykiss (Rainbow trout)

Acute (short-term) toxicity to algae and cyanobacteria

ingredient Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

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

Effective dose

EL50:

Test duration 72 h

species

Pseudokirchneriella subcapitata

Method

OECD 201

ingredient propan-2-ol

Acute (short-term) toxicity to algae and cyanobacteria >1000 mg/L

Effective dose

EC50

species

Pseudokirchneriella subcapitata

12.2 Persistence and degradability

Biodegradation

ingredient Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Degradation rate 98 %

Method

OECD 301F

ingredient propan-2-ol

Degradation rate 84 %

Assessment/classification

Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

Assessment/classification

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

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



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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	AEROSOLS	Aerosols, flammable
14.3 Class(es)	2	2.1	2.1
14.4 Packing group			
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)

Classification code

Limited quantity (LQ)

tunnel restriction code

transport category

remark

2.1

5F

1 L

D

2.7

F-D, S-U

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: 96 weight-%



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VOC-value 686 g/L

To follow:

Aerosol directive (75/324/EEC)

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

≥ 30%: aliphatische Kohlenwasserstoffe; Duftstoffe (Limonene, Citral, Linalool)

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

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.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

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).

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.