

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

1.1 Product identifier

Trade name/designation CleanSeam.Spray

Specification No.: 2031016

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

Relevant identified uses

Product categories [PC]

PC2 Adsorbents

PC14 Metal surface treatment products, including galvanic and electroplating products

1.3 Details of the supplier of the safety data sheet

Supplier

CleanSeam GmbH & Co. KG

Speditionstraße 8

DE-40221 Düsseldorf

E-mail:

weld@cleanseam.de

www.cleanseam.de

1.4 Emergency telephone number

Poison control center: +49 228 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

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

hazard statements for physical hazards

H229 Pressurised container: May burst if heated.

Environmental hazards

Aquatic Chronic 2

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

contains: hydrocarbons, C7, n-alkanes, cyclics (CAS: 64742-49-0, EC: 927-510-4)

Hazard pictograms

GHS02



GHS07



GHS09

Signal word

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 soap and water.

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

Storage:

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

Disposal:

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

Special rules for supplemental label elements for certain mixtures

EUH208 Contains orange, sweet, ext.. May produce an allergic reaction.

2.3 Other hazards**Adverse physicochemical effects**

Caution! Container under pressure.

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

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

3.1/3.2 Substances/Mixtures**Description**

The substance with CAS no. 8028-48-6 is a UVCB substance. Its main constituents are: (R)-p-mentha-1,8-diene (CAS: 5989-27-5), myrcene (CAS: 123-35-3) and alpha-pinene (CAS: 80-56-8).

Hazardous ingredientspropane 10 - 25 %

CAS 74-98-6

EC 200-827-9

INDEX 601-003-00-5

Flam. Gas 1, H220 / Press. Gas, / Liquef. Gas, H280

isobutane 25 - 50 %

CAS 75-28-5

EC 200-857-2

INDEX 601-004-00-0

Flam. Gas 1, H220 / Press. Gas, / Liquef. Gas, H280

n-hexane <1 %

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

Orange, sweet, ext. <1 %

CAS 8028-48-6

EC 232-433-8

Asp. Tox. 1, H304 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Aquatic Chronic 2, H411 / Flam. Liq. 3, H226

White mineral oil (petroleum) 10 - 25 %

CAS 8042-47-5

EC 232-455-8

Asp. Tox. 1, H304

hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic 25 - 50 %

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove victim out of the danger area. 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. In case of respiratory tract irritation, consult a physician. If breathing is irregular or stopped, administer artificial respiration.

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.

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 (CO₂)

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. Remove persons to safety.

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. Beware of reignition.

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. 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

6.4 Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Work in well-ventilated zones or use proper respiratory protection. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing.

Wash hands before breaks and after work.

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
110-54-3	n-Hexane	72 mg/m ³ 20 ppm		Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] ~ 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/>)

DNEL-/PNEC-values**DNEL Consumer****Substance name** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic**DNEL type**

inhalative, long-term, systemic

DNEL value 447 mg/m³**Substance name** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic**DNEL type**

dermal, long-term, systemic

DNEL value 149 mg/kg**Substance name** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic**DNEL type**

oral, long-term, systemic

DNEL value 149 mg/kg**Substance name** White mineral oil (petroleum)**DNEL type**

inhalative, long-term, systemic

DNEL value 35 mg/m³**Substance name** White mineral oil (petroleum)**DNEL type**

dermal, long-term, systemic

DNEL value 93 mg/kg**Substance name** White mineral oil (petroleum)**DNEL type**

oral, long-term, systemic

DNEL value 40 mg/kg**Substance name** Orange, sweet, ext.**DNEL type**

inhalative, long-term, systemic

DNEL value 7,78 mg/m³**Substance name** Orange, sweet, ext.**DNEL type**

dermal, long-term, systemic

DNEL value 4,44 mg/kg**Substance name** Orange, sweet, ext.**DNEL type**

oral, long-term, systemic

DNEL value 4,44 mg/kg**DNEL worker****Substance name** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic**DNEL type**

inhalative, long-term, systemic

DNEL value 2085 mg/m³**Substance name** hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic**DNEL type**

dermal, long-term, systemic

DNEL value 300 mg/kg**Substance name** White mineral oil (petroleum)**DNEL type**

inhalative, long-term, systemic

DNEL value 160 mg/m³**Substance name** White mineral oil (petroleum)

DNEL type

dermal, long-term, systemic

DNEL value 220 mg/kg

Substance name Orange, sweet, ext.

DNEL type

inhalative, long-term, systemic

DNEL value 31,1 mg/m³

Substance name Orange, sweet, ext.

DNEL type

dermal, long-term, systemic

DNEL value 8,89 mg/kg

PNEC

PNEC Value 5,4 µg/L

remark

CAS 8028-48-6

PNEC type

aquatic, freshwater

PNEC Value 0,54 µg/L

remark

CAS 8028-48-6

PNEC type

aquatic, marine water

PNEC Value 5,77 µg/L

remark

CAS 8028-48-6

PNEC type

aquatic, intermittent release

PNEC Value 2,1 mg/L

remark

CAS 8028-48-6

PNEC type

sewage treatment plant

PNEC Value 1,3 mg/kg

remark

CAS 8028-48-6

PNEC type

sediment, freshwater

PNEC Value 0,13 mg/kg

remark

CAS 8028-48-6

PNEC type

sediment, marine water

PNEC Value 0,261 mg/kg

remark

CAS 8028-48-6

PNEC type

soil

8.2 Exposure controls

Appropriate engineering controls

Substance/mixture related measures to prevent exposure during identified uses

Fresh air (open windows and doors) is necessary.

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)

Breakthrough time (maximum wearing time) >480 min**Body protection:****Suitable protective clothing:**

Chemical resistant safety shoes

Required properties:

antistatic

flame-resistant

Respiratory protection

Respiratory protection necessary at:

exceeding exposure limit values

Suitable respiratory protection apparatus:

Combination filtering device (EN 14387)

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

Odour

Fruity

	parameter	Method - source - remark
pH not determined		
Melting point/freezing point		not determined
Initial boiling point and boiling range		not determined
Flash point (°C)		not determined
Evaporation rate		not determined
flammability		not determined
Upper explosion limit	10,9 Vol-%	(propellant)
lower explosion limit	1,5 Vol-%	(propellant)
Vapour pressure	0,1 hPa	Temperature 20 °C
Vapour density		not determined
Relative density	0,753 g/cm ³	Temperature 20 °C
Fat solubility (g/L)		not determined
Water solubility (g/L)		not determined
Soluble (g/L) in		not determined
Partition coefficient: n-octanol/water		not determined
Auto-ignition temperature		not determined
Decomposition temperature		not determined

9.2 Other information

Solvent content (%)

Value 84 %

Physical hazards

Flammable aerosols

Assessment/classification

Extremely flammable aerosol (H222)

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

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

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute dermal toxicity

ingredient hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic

Acute dermal toxicity >22920 mg/kg

Effective dose

LD50:

Species:

Rat

ingredient White mineral oil (petroleum)

Acute dermal toxicity >2000 mg/kg

Effective dose

LD50:

Species:

Rabbit

Acute inhalation toxicity (vapour)

ingredient hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic

Acute inhalation toxicity (vapour) >23300 mg/m³

Effective dose

LC50:

Exposure time 4 h

Species:

Rat

ingredient White mineral oil (petroleum)

Acute inhalation toxicity (vapour) >5000 mg/L

Effective dose

LC50:

Exposure time 4 h

Species:

Rat

Acute oral toxicity

ingredient hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic

Acute oral toxicity >5840 mg/kg

Effective dose

LD50:

Species:

Rat

ingredient White mineral oil (petroleum)

Acute oral toxicity >5000 mg/kg

Effective dose

LD50:

Species:

Rat

skin corrosion/irritation

ingredient hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic

Assessment/classification

Irritant.

Serious eye damage/irritation

Assessment/classification

Not an irritant.

Respiratory or skin sensitisation

Skin sensitisation

Assessment/classification

May cause sensitization by skin contact.

STOT-single exposure

STOT SE 3

Narcotic effects

Assessment/classification

May cause drowsiness or dizziness.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

ingredient hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic

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

Effective dose

LL50:

Test duration 96 h

species

Oncorhynchus mykiss (Rainbow trout)

Method

OECD 203

ingredient White mineral oil (petroleum)

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

Effective dose

LC50:

Test duration 96 h

Acute (short-term) toxicity to crustacea

ingredient hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic

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

ingredient White mineral oil (petroleum)

Acute (short-term) toxicity to crustacea >100 mg/L

Effective dose

EC50

Test duration 48 h

Chronic (long-term) toxicity to crustacea

ingredient hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic

Chronic (long-term) toxicity to crustacea 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, cyclic

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 aquatic algae and cyanobacteria

ingredient hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic

Acute (short-term) toxicity to aquatic 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, cyclic

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

Effective dose

EbC50:

Test duration 72 h

species

Pseudokirchneriella subcapitata

Method

OECD 201

Assessment/classification

No data available

12.2 Persistence and degradability

Biodegradation

ingredient hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic

Degradation rate (%): 98 %

Method

OECD 301F

ingredient White mineral oil (petroleum)

Degradation rate (%): 31,8 %

Method

OECD 301F

12.3 Bioaccumulative potential

Assessment/classification

No data available

12.4 Mobility in soil

Assessment/classification

not determined

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Non-contaminated packages may be recycled.

Waste code packaging 150111

hazardous waste Yes.

Waste name

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

Waste code product 160504

hazardous waste Yes.

Waste name

gases in pressure containers (including halons) containing hazardous substances

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, isoalkanes, cyclics)	AEROSOLS (hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)	Aerosols, flammable (hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)
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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	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: 84 Wt %

VOC-value (in g/L): 537 g/L

To follow:

Aerosol directive (75/324/EEC)

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

≥ 30% aliphatische Kohlenwasserstoffe, Duftstoffe (Limonene)

≥ 30%: aliphatic hydrocarbons; perfumes (Limonene)

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).

Indication of changes

* Data changed compared with the previous version

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.

H226 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.

H317 May cause an allergic skin reaction.

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.