

Safety Data Sheet

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



Trade name : Insulating spray white S 10
(Isolierspray S 10)
Article number : 0145__000
Revision date : 22.07.2020
Version (Revision) : 9.0.1 (9.0.0)
Print date : 22.07.2020

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

1.1 Product identifier

Insulating spray white S 10
(Isolierspray S 10) (0145__000)

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

Relevant identified uses

Products Category [PC]

PC9a - Coatings and paints, thinners, paint removers

Sectors of use [SU]

SU21 - Consumer uses: Private households (= general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

PUFAS Werk KG

Street : Im Schedetal 1

Postal code/city : 34346 Hann. Münden

Telephone : +49 (0)5541 7003-01

Telefax : +49 (0)5541 7003-50

Information contact :

E-mail (competent person) : sds@pufas.de

Website : www.pufas.de

1.4 Emergency telephone number

+49 (0)5541 7003-41/-64

Only available during office hours (Mo-Th 8 - 16 h, Fr 8 - 12.30 h).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Aerosol 1 ; H222 - Aerosols : Category 1 ; Extremely flammable aerosol.

Aerosol 1 ; H229 - Aerosols : Category 1 ; Pressurised container: May burst if heated.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

2.2 Label elements

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

Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

Signal word

Danger

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Hazard components for labelling

HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, < 5% N-HEXANE
HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P271 Use only outdoors or in a well-ventilated area.
P211 Do not spray on an open flame or other ignition source.
P261 Avoid breathing vapours/spray.
P280 Wear protective gloves/eye protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P101 If medical advice is needed, have product container or label at hand.
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/regional/national regulations of waste disposal.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

2.3 Other hazards

This mixture does not contain any substances classified as PBT/vPvB or included in the SVHC-Candidate List.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description

Consists of: Alkyd resin, titanium dioxide, calcium carbonate, white spirit, blowing gas and additives

Hazardous ingredients

DIMETHYL ETHER ; REACH No. : 01-2119472128-37 ; EC No. : 204-065-8 ; CAS No. : 115-10-6

Weight fraction : $\geq 15 - < 20$ %
Classification 1272/2008 [CLP] : Press. Gas (Liq.) ; H280
Substance with a common (EC) occupational exposure limit value.

HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, < 5% N-HEXANE ; REACH No. : 01-2119475514-35 ;
EC No. : 921-024-6

Weight fraction : $\geq 15 - < 20$ %
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 Skin Irrit. 2 ; H315 STOT SE 3 ; H336
Aquatic Chronic 2 ; H411

BUTANE ; REACH No. : 01-2119474691-32 ; EC No. : 203-448-7 ; CAS No. : 106-97-8

Weight fraction : $\geq 15 - < 20$ %
Classification 1272/2008 [CLP] : Press. Gas (Liq.) ; H280

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HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS ; REACH No. : 01-2119471843-32 ; EC No. : 927-241-2

Weight fraction : $\geq 10 - < 15 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H336 Aquatic Chronic 3 ; H412

PROPANE ; REACH No. : 01-2119486944-21 ; EC No. : 200-827-9; CAS No. : 74-98-6

Weight fraction : $\geq 5 - < 10 \%$

Classification 1272/2008 [CLP] : Press. Gas (Liq.) ; H280

Additional information

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Notice the directions for use on the label. When in doubt or if symptoms are observed, get medical advice. Change contaminated, saturated clothing.

Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Observe risk of aspiration if vomiting occurs. Do NOT induce vomiting. Call a physician in any case!

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water mist alcohol resistant foam Carbon dioxide (CO₂) Extinguishing powder

Unsuitable extinguishing media

Full water jet Strong water jet

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

Danger of bursting and explosion by pressure increase.

Special protective equipment for firefighters

Do not inhale explosion and combustion gases. In case of fire: Wear self-contained breathing apparatus.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

The usual precautionary measures for the handling of chemicals have to be observed. Provide adequate ventilation. Remove all sources of ignition. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4 Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Normal precautions taken when handling chemicals should be observed. Avoid contact with skin and eyes. Keep away from food, drink and animal feeding stuffs. Keep containers dry and cool.

Measures to prevent fire

Only use the material in places where open light, fire and other flammable sources can be kept away. Provide adequate ventilation as well as local exhaustion at critical locations. Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.

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. Observe recommended storage temperature.

Further information on storage conditions

Do not store outside. Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Please note safety instructions and directions for use on the drum.

Recommended storage temperature : Store it separately from foods.

7.3 Specific end use(s)

Recommendation

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

DIMETHYL ETHER ; CAS No. : 115-10-6

Limit value type (country of origin) : TWA (EC)

Limit value : 1000 ppm / 1920 mg/m³

Version : 20.06.2019

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8.2 Exposure controls

Personal protection equipment

Eye/face protection

Suitable eye protection

goggles

Skin protection

Hand protection

Gloves (tested for example according to EN374) made of the following materials used by hand contact with the product:

Nitrile rubber (NBR)

Thickness of the gloves: > 0.4 mm

Breakthrough time: >= 8h

After washing hands replace lost skin fat by fat containing skin creams.

Body protection

Wearing of closed working clothes. Remove contaminated, saturated clothing.

Respiratory protection

Suitable respiratory protection apparatus

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

General information

The usual precautionary measures for the handling of chemicals have to be observed. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

Environmental exposure controls

See also section 6 and 12.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Aerosol

Colour : white

Odour

Like white spirit.

Safety characteristics

Melting point/freezing point :	(1013 hPa)	No data available
Initial boiling point and boiling range :	(1013 hPa)	not applicable - spray
Flash point :		-4 °C Brookfield
Auto-ignition temperature :		235 °C
Lower explosion limit :		1,5 Vol-%
Upper explosion limit :		18,6 Vol-%
Explosion hazard :		möglich bei Gebrauch-Dampf/Luft-Gemisch
Vapour pressure :	(50 °C)	No data available
Vapour pressure :	(20 °C)	3400 hPa
Density :	(20 °C)	0,75 g/cm ³
Solvent separation test :	(20 °C)	not applicable
Water solubility :	(20 °C)	practically insoluble
Flow time :	(20 °C)	not applicable
Solid content :		23,6 Wt %

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Solvent content : 76,4 Wt %
VOC-value : < 580 g/l

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

None, if handled according to order.

10.6 Hazardous decomposition products

Gases/vapours, flammable

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available

Acute oral toxicity

Parameter : LD50 (HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, < 5% N-HEXANE)
Exposure route : Oral
Species : Rat
Effective dose : > 2000 mg/kg
Parameter : LD50 (HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS)
Exposure route : Oral
Species : Rat
Effective dose : > 8000 mg/kg

Acute dermal toxicity

Parameter : LD50 (HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, < 5% N-HEXANE)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg
Parameter : LD50 (HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS)
Exposure route : Dermal
Species : Rat
Effective dose : > 3200 mg/kg
Parameter : LD50 (HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 4000 mg/kg

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Acute inhalation toxicity

Parameter : LC50 (DIMETHYL ETHER ; CAS No. : 115-10-6)
Exposure route : Inhalation
Species : Rat
Effective dose : 308 g/m³

Parameter : LC50 (DIMETHYL ETHER ; CAS No. : 115-10-6)
Exposure route : Inhalation
Species : Mouse
Effective dose : 386 ppm

Parameter : LC50 (HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, < 5% N-HEXANE)
Exposure route : Inhalation
Species : Rat
Effective dose : > 25,2 mg/l
Exposure time : 4 h

Parameter : LC50 (BUTANE ; CAS No. : 106-97-8)
Exposure route : Inhalation
Species : Rat
Effective dose : 659 g/m³

Parameter : LC50 (BUTANE ; CAS No. : 106-97-8)
Exposure route : Inhalation
Species : Mouse
Effective dose : 680 g/m³

Parameter : LC50 (HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS)
Exposure route : Inhalation
Species : Rat
Effective dose : > 14 mg/l
Exposure time : 4 h

Additional information

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

Corrosion

Causes skin irritation.

Skin corrosion/irritation

Parameter : Skin corrosion/irritation (HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS)
Result : mild skin irritation

Serious eye damage/eye irritation

Parameter : Serious eye damage/eye irritation (HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS)
Result : Nicht augenreizend (geschätzt).

Additional information

The liquid slightly irritates the skin, vapours in higher concentration irritate eyes and respiration.

Respiratory or skin sensitisation

No data available

Repeated dose toxicity (subacute, subchronic, chronic)

No data available

Additional information

No known symptoms to date.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No data available

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Germ cell mutagenicity

No data available

Reproductive toxicity

No data available

Overall Assessment on CMR properties

No known symptoms to date.

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

Harmful: may cause lung damage if swallowed.

Phototoxicity

Additional information

No known symptoms to date.

SECTION 12: Ecological information

12.1 Toxicity

No information available.

Aquatic toxicity

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

Parameter : EC/IC/LC50 (HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS)

Species : Fish

Effective dose : > 100 mg/l

Evaluation : Praktisch nicht giftig.

Parameter : EC/IC/LC50 (HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS)

Species : Daphnia

Effective dose : > 100 mg/l

Evaluation : Praktisch nicht giftig.

Parameter : EC/IC/LC50 (HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS)

Species : Algen / Wasserpflanzen

Effective dose : > 100 mg/l

Evaluation : Praktisch nicht giftig.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances classified as PBT/vPvB or included in the SVHC-Candidate List.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

Additional information

Do not allow to enter into surface water or drains.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

Waste codes/waste designations according to EWC/AVV

Waste code product

16 05 04

Waste name

gases in pressure containers (including halons) containing dangerous substances

Waste code packaging

15 01 04

Waste name

metallic packaging

SECTION 14: Transport information

14.1 UN number

UN 1950

14.2 UN proper shipping name

Land transport (ADR/RID)

AEROSOLS

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 2
Classification code : 5F
Hazard identification number (Kemler No.) : 23
Tunnel restriction code : D
Special provisions : LQ 1 | E 0
Hazard label(s) : 2.1

Sea transport (IMDG)

Class(es) : 2.1
EmS-No. : F-D / S-U
Special provisions : LQ 1 | E 0
Hazard label(s) : 2.1

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 2.1
Special provisions : E 0
Hazard label(s) : 2.1

14.4 Packing group

14.5 Environmental hazards

Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

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14.8 Additional information

The ADR-classification is not applying to our assembled packing [see ADR'03 3.4. LQ 1 I] => limited Quantity

SECTION 15: Regulatory information

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

EU legislation

Other regulations (EU)

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

- this product is not subject to EC Detergent regulation no. 648/2004.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

- out of scope (see Appendix I, 1., first sentence)

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

15.3 Additional information

None

SECTION 16: Other information

16.1 Indication of changes

14. Transport hazard class(es) - Land transport (ADR/RID)

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

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

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
