

Safety Data Sheet

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



Trade name : KORASILON Universal Siliconspray (neu)
Article number : 14006-15
Revision date : 14.10.2019
Print date : 14.10.2019
Version (Revision) : 3.4.0 (3.3.0)

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

1.1 Product identifier

KORASILON Universal Siliconspray (neu) (14006-15)

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

Relevant identified uses

Aerosol PC 24 - Lubricants, greases, release products

Uses advised against

No information available.

1.3 Details of the supplier of the safety data sheet

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

Kurt Obermeier GmbH & Co. KG
Spezialchemikalien Holzschutz

Street : Berghäuser Str. 70

Postal code/city : 57319 Bad Berleburg

Telephone : +492751/524-0

Telefax : +492751/5041

Information contact : E-Mail: sdb@obermeier.de

1.4 Emergency telephone number

+49 / (0)700 24112112 (KOR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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

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

Classification procedure

Calculation method.

2.2 Label elements

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

Hazard pictograms



Flame (GHS02)

Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Precautionary statements

P102 Keep out of reach of children.

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

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P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Additional information

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

2.3 Other hazards

Caution! Container under pressure.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

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

Weight fraction : $\geq 50 - < 70$ %

Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 Press. Gas (Liq.) ; H280

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

Weight fraction : $\geq 10 - < 20$ %

Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 Press. Gas (Liq.) ; H280

ISOBUTANE ; REACH No. : 01-2119485395-27-XXXX ; EC No. : 200-857-2; CAS No. : 75-28-5

Weight fraction : $\geq 10 - < 20$ %

Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 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

Change contaminated, saturated clothing. When in doubt or if symptoms are observed, get medical advice. 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. Provide fresh air.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin. In case of skin reactions, consult a physician.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water.

Self-protection of the first aider

First aider: Pay attention to self-protection!

Notes for the doctor

Special treatment

Treat symptomatically.

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

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None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) alcohol resistant foam Extinguishing powder Sand

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

5.4 Additional information

None

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Take the precautions customary when handling chemicals. Use personal protection equipment. Keep away from ignition sources on account of the organic solvent content and air room well. Do not inhale vapours. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3 Methods and material for containment and cleaning up

For cleaning up

Take up mechanically. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Do not rinse down with water.

6.4 Reference to other sections

None

6.5 Additional information

No data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes.

Protective measures

Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Measures to prevent fire

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container. Protect against direct sunlight. Ensure adequate ventilation of the storage area.

Hints on joint storage

Storage class (TRGS 510) : 2B

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Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place. Heating causes rise in pressure with risk of bursting.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

BUTANE ; CAS No. : 106-97-8

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 1000 ppm / 2400 mg/m³
Peak limitation : 4(II)
Version : 29.03.2019

PROPANE ; CAS No. : 74-98-6

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 1000 ppm / 1800 mg/m³
Peak limitation : 4(II)
Version : 29.03.2019

ISOBUTANE ; CAS No. : 75-28-5

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 1000 ppm / 2400 mg/m³
Peak limitation : 4(II)
Version : 29.03.2019

Biological limit values

No data available

DNEL-/PNEC-values

DNEL/DMEL

No data available

PNEC

No data available

8.2 Exposure controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment

Eye/face protection

Eye glasses with side protection

Skin protection

Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. EN ISO 374

Suitable material : Butyl caoutchouc (butyl rubber) NBR (Nitrile rubber)

Breakthrough time (maximum wearing time) : 480 minutes. Check leak tightness/impermeability prior to use. 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.

Thickness of the glove material : 0,4 mm

Respiratory protection

Respiratory protection necessary at: insufficient ventilation exceeding exposure limit values Handling larger quantities. aerosol or mist formation.

Suitable respiratory protection apparatus

Filtering device with filter or ventilator filtering device of type: A

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General information

Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs.

8.3 Additional information

No data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Aerosol

Colour : colourless

Odour

light

Safety characteristics

Solidifying point :	(1 bar / 1 Pa)	not determined	Brookfield
Melting point/freezing point :		not determined	
Freezing point :		not determined	
Initial boiling point and boiling range :		not applicable	
Decomposition temperature :		not determined	
Flash point :		approx. -60 °C	
Auto-ignition temperature :		approx. 365 °C	
Lower explosion limit :		approx. 1,5 Vol-%	
Upper explosion limit :		approx. 10,9 Vol-%	
Vapour pressure :	(20 °C)	approx. 4500 hPa	
Density :	(20 °C)	approx. 0,57 g/cm ³	
Solvent separation test :	(20 °C)	not determined	
Solubility in water		Not miscible or difficult to mix	
Fat solubility :	(20 °C)	Not determined.	
pH :	(20 °C)	not applicable	
log P O/W :		not determined	
Viscosity :	(20 °C)	not determined	
Odour threshold :		not determined	
Relative vapour density :	(20 °C)	not determined	
Evaporation rate :		not determined	
Vapourisation rate :		not applicable	
Maximum VOC content (EC) :		approx. 93 Wt %	
VOC-value :		approx. 530,1 g/l	
Flammable solids :	Not applicable.		
Flammable gases :	Not applicable.		
Oxidising liquids :	Not determined.		
Explosive properties :	Not determined.		
Corrosive to metals :	Not determined.		

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known.

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10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Keep away from sources of ignition - No smoking. Danger of bursting container.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No information available.

10.7 Additional information

No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

The product has not been tested.

Acute dermal toxicity

The product has not been tested.

Acute inhalation toxicity

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 (ISOBUTANE ; CAS No. : 75-28-5)

Exposure route : Inhalation

Species : Rat

Effective dose : 57 pph

The product has not been tested.

Specific effects (Longterm animal experiment)

The product has not been tested.

Corrosion

Skin corrosion/irritation

The product has not been tested.

Serious eye damage/eye irritation

The product has not been tested.

Irritation to respiratory tract

The product has not been tested.

Respiratory or skin sensitisation

Skin sensitisation

The product has not been tested.

Sensitisation to the respiratory tract

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Repeated dose toxicity (subacute, subchronic, chronic)

The product has not been tested.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

The product has not been tested.

Germ cell mutagenicity

The product has not been tested.

Reproductive toxicity

The product has not been tested.

STOT-single exposure

The product has not been tested.

STOT-repeated exposure

The product has not been tested.

Aspiration hazard

The product has not been tested.

11.2 Toxicokinetics, metabolism and distribution

The product has not been tested.

11.3 Symptoms related to the physical, chemical and toxicological characteristics

No data available

11.4 Other adverse effects

No data available

Other observations

Has degreasing effect on the skin.

11.5 Additional information

No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

The product has not been tested.

Chronic (long-term) fish toxicity

The product has not been tested.

Acute (short-term) toxicity to crustacea

The product has not been tested.

Chronic (long-term) toxicity to crustacea

The product has not been tested.

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

The product has not been tested.

Chronic (long-term) algae toxicity

The product has not been tested.

Toxicity to microorganisms

The product has not been tested.

Terrestrial toxicity

The product has not been tested.

Toxicity to terrestrial plants

The product has not been tested.

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Effects in sewage plants

The product has not been tested.

12.2 Persistence and degradability

Abiotic degradation

The product has not been tested.

Biodegradation

The product has not been tested.

12.3 Bioaccumulative potential

The product has not been tested.

12.4 Mobility in soil

The product has not been tested.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Other adverse effects

No data available

12.7 Additional ecotoxicological information

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Consult the appropriate local waste disposal expert about waste disposal.

Product/Packaging disposal

Waste treatment options

Appropriate disposal / Product

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Appropriate disposal / Package

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Transport information Land transport (ADR/RID) : Sea transport (IMDG) : Air transport (ICAO-TI / IATA-DGR) :

14.1 UN number

UN 1950

14.2 UN proper shipping name

Land transport (ADR/RID)

AEROSOLS, flammable

Sea transport (IMDG)

AEROSOLS, flammable

Air transport (ICAO-TI / IATA-DGR)

AEROSOLS, FLAMMABLE

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 2
Classification code : 5F
Hazard identification number (Kemler No.) : 23

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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

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Use restriction according to REACH annex XVII, no. : 3, 40

Other regulations (EU)

Aerosol directive (75/324/EEC)

National regulations

Technische Anleitung Luft (TA-Luft)

Sum organic substances class III : > 93 %

Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to AwSV

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

REACH - Registration, Evaluation, Authorisation of Chemicals
GHS - Globally Harmonised System of Classification and Labeling
CLP - Classification, Labeling and Packaging of Substances and Mixtures
CAS - Chemical Abstract Service
TWA - Time Weighted Average
DNEL/DMEL - Derived No Effect Level
PNEC - Predicted No Effect Concentration

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STP - Sewage Treatment Plant
TRGS - Technical Rules for Hazardous Substances (German Regulations)
STEL - Short-term Exposure Limit
TLV - threshold limit value
AGW - Occupational threshold limit value
RCP - Reciprocal Calculation Procedure
ATE - Acute Toxicity Estimate
MAK Threshold limit values Germany
LD50 - Lethal Dose, 50%
LC50 - Lethal concentration, 50%
OECD - Organization for Economic Cooperation and Development
NOAEL - No Observed Adverse Effect Level
EC50 - half maximal effective concentration
NOEC - No Observed Effect Concentration
PBT - Persistent, Bioaccumulative, Toxic
vPvB - very Persistent, very Bioaccumulative
ADR/RID - European Agreement concerning the International Carriage of Dangerous Goods by Road (Accord européen relatif au transport international des marchandises Dangereuses par Route)/Regulations Concerning the International Transport of Dangerous Goods by Rail (Règlement concernant le transport International ferroviaire de marchandises Dangereuses)
IMDG - International Maritime Dangerous Goods Code
ICAO - International Civil Aviation Association
IATA - International Air Transport Association
VwVws - German administrative regulation on the classification of substances hazardous to water into water hazard classes
AwsV - Ordinance on facilities for handling substances that are hazardous to water

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.
H280 Contains gas under pressure; may explode if heated.

16.6 Training advice

None

16.7 Additional information

None

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.