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

1.1 Product identifier

Trade name/designation Antikor RS Aerosol 500 ml

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

Relevant identified uses

Sector of uses [SU]

SU12 Manufacture of plastics products, including compounding and conversion

SU14 Manufacture of basic metals, including alloys

Product categories [PC]

PC24 Lubricants, greases, release products

Anticorrosive agent

Process categories [PROC]

PROC7 Industrial spraying

1.3 Details of the supplier of the safety data sheet

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

Büchem Chemie + Technik GmbH & Co. KG

Von-der-Wettern-Str. 23

D-51149 Cologne

P.O. Box:

Telephone: +49 2203 35735-0

Telefax: +49 2203 35735-20

E-mail: buechem@buechem.de

1.4 Emergency telephone number

Emergency telephone number

+49 172 2535524

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Health hazards:

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.

health hazards

Asp. Tox. 1

hazard statements for health hazards

H304 May be fatal if swallowed and enters airways.

Physical hazards:**Physical hazards**

Flam. Aerosol 1

hazard statements for physical hazards

H222 Extremely flammable aerosol.

Environmental hazards:**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 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:**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Prevention:

P271 Use only outdoors or in a well-ventilated area.

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

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

P251 Do not pierce or burn, even after use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Storage:

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

Product identifiers

n-Hexan

Cyclohexan

Kohlenwasserstoffe, C6, Isoalkane, <5% n-Hexan

Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan

Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan

Kohlenwasserstoffe, C7,n-Alkane, Isoalkane, Cyclene

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients**3.1/3.2 Mixture related information****Hazardous ingredients**

| | |
|---|-----------|
| propane | 5 - 10 % |
| CAS 74-98-6 | |
| EC 200-827-9 | |
| INDEX 601-003-00-5 | |
| Flam. Gas 1, H220 | |
| butane | 10 - 30 % |
| CAS 106-97-8 | |
| EC 203-448-7 | |
| INDEX 601-004-00-0 | |
| Flam. Gas 1, H220 | |
| n-hexane | <3 % |
| CAS 110-54-3 | |
| EC 203-777-6 | |
| INDEX 601-037-00-0 | |
| Flam. Liq. 2, H225 / Skin Irrit. 2, H315 / Repr. 2, H361f / STOT SE 3, H336 / STOT RE 2, H373 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 | |
| cyclohexane | <1 % |
| CAS 110-82-7 | |
| EC 203-806-2 | |
| INDEX 601-017-00-1 | |
| Flam. Liq. 2, H225 / Skin Irrit. 2, H315 / STOT SE 3, H336 / Asp. Tox. 1, H304 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410 | |
| Kohlenwasserstoffe, C6, Isoalkane, <5% n-Hexan | <=25 % |
| EC 931-254-9 | |
| Skin Irrit. 2, H315 / STOT SE 3, H336 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / Flam. Liq. 2, H225 | |
| Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan | <=60 % |
| EC 926-605-8 | |
| STOT SE 3, H336 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / Flam. Liq. 2, H225 | |
| Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan | <=45 % |
| EC 921-024-6 | |
| Skin Irrit. 2, H315 / STOT SE 3, H336 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / Flam. Liq. 2, H225 | |

Kohlenwasserstoffe, C7,n-Alkane, Isoalkane, Cyclene <=35 %
EC 927-510-4
Skin Irrit. 2, H315 / STOT SE 3, H336 / Asp. Tox. 1, H304 /
Aquatic Chronic 2, H411 / Flam. Liq. 2, H225

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).

Following inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Remove casualty to fresh air and keep warm and at rest.

Following 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

Rinse mouth immediately and drink plenty of water. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂)

Extinguishing powder

Water spray

alcohol resistant foam

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide.

Carbon dioxide (CO₂)

5.3 Advice for firefighters

Special protective equipment for firefighters:

Use suitable breathing apparatus.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel****Emergency procedures**

Provide adequate ventilation. Remove persons to safety. Remove all sources of ignition.

Personal precautions

Use personal protection equipment.

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.

6.3 Methods and material for containment and cleaning up**For containment****Suitable material for taking up:**

Kieselguhr

Sand

Universal binder

6.4 Reference to other sections

No data available

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advices on general occupational hygiene**

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

Protective measures**Advices on safe handling**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Avoid:

Inhalation

Skin contact

Eye contact

Do not spray on naked flames or any incandescent material.

Measures to prevent fire

Vapours can form explosive mixtures with air. Keep away from sources of ignition. - No smoking.

The product is:

Highly flammable

7.2 Conditions for safe storage, including any incompatibilities**Hints on joint storage****Storage class**

aerosols

Further information on storage conditions

Heating causes rise in pressure with risk of bursting.

Protect against:

Heat

Frost

Humidity

Do not store at temperatures above

50°C

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 |
|----------|----------------|--------------------------------|--------------------------------|--------------------|
| 106-97-8 | Butane | 1450 mg/m ³ 600 ppm | 1810 mg/m ³ 750 ppm | |
| 110-54-3 | n-Hexane | 72 mg/m ³ 20 ppm | | Great Britain (UK) |
| 110-82-7 | Cyclohexane | 350 mg/m ³ 100 ppm | 1050 mg/m ³ 300 ppm | Great Britain (UK) |
| | | | | Great Britain (UK) |

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

8.2 Exposure controls**Personal protection equipment****Eye/face protection****Suitable eye protection:**

goggles

Skin protection**Skin protection****Suitable material:**

NBR (Nitrile rubber)

Required properties:

liquid-tight

additional hand protection measures

Check leak tightness/impermeability prior to use.

remark

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.

Respiratory protection**Suitable respiratory protection apparatus:**

AX

remark

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

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance****Physical state**

Aerosol

Colour

cloudy

Odour

Gasoline

| | parameter | Method - source - remark |
|---|-------------------------|---|
| pH | | No data available |
| Melting point/freezing point | | No data available |
| Initial boiling point and boiling range | | No data available |
| Flash point (°C) | | No data available |
| Evaporation rate | | No data available |
| Flammable solids | | No data available |
| Flammable aerosols | | Tests on the flammability of aerosols are not required as the aerosol is classified as "extremely flammable". Extremely flammable aerosol (H222). |
| Upper explosion limit (Vol-%) | | No data available |
| Lower explosion limit (Vol-%) | | No data available |
| Vapour pressure | ca.7300 hPa | at °C: 50 °C |
| Density | 0,642 g/cm ³ | at °C: 20 °C |
| Vapour density | | No data available |
| Fat solubility (g/L) | | No data available |
| Water solubility (g/L) | | insoluble |
| Soluble (g/L) in | | No data available |
| Partition coefficient: n-octanol/water | | No data available |
| Auto-ignition temperature | | No data available |

| parameter | Method - source - remark |
|---------------------------|--------------------------|
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Explosives | No data available |
| Oxidising gases | No data available |
| Oxidising liquids | No data available |
| Oxidising solids | No data available |

9.2 Other safety information

Solvent content (%) 30 - 50 %

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

In case of warming:

Danger of bursting container.

Ignition hazard

10.5 Incompatible materials

Materials to avoid

Oxidising agent, strong

10.6 Hazardous decomposition products

Carbon dioxide

Carbon monoxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute dermal toxicity

ingredient Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan

Acute toxicity, dermal >2000 mg/kg

Effective dose

LD50:

Species:

Rabbit

Method

OECD 402

ingredient Kohlenwasserstoffe, C7,n-Alkane, Isoalkane, Cyclene

Acute toxicity, dermal >2920 mg/kg

Effective dose

LD50:

Species:

Rat

Method

OECD 402

remark

Test was carried out with a similar preparation/mixture.

ingredient Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan

Acute toxicity, dermal >2000 mg/kg

Effective dose

LD50:

Species:

Rat

Method

OECD 402

ingredient Kohlenwasserstoffe, C6, Isoalkane, <5% n-Hexan

Acute toxicity, dermal >3000 mg/kg

Effective dose

LC50:

Species:

Rat

Method

OECD 402

Acute inhalation toxicity (gas)

ingredient butane

Acute inhalation toxicity (gas) 658 mg/l

Effective dose

LC50:

Exposure time 4 h

Species:

Rat

ingredient propane

Acute inhalation toxicity (gas) >20 mg/l

Effective dose

LC50:

Exposure time 4 h

Species:

Rat

ingredient Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan

Acute inhalation toxicity (gas) >20 mg/l

Effective dose

LC50:

Exposure time 4 h

Species:

Rat

Method

OECD 403

ingredient Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan**Acute inhalation toxicity (gas)** >20 mg/l**Effective dose**

LC50:

Exposure time 4 h**Species:**

Rat

Method

OECD 403

Acute inhalation toxicity (vapour)**ingredient** Kohlenwasserstoffe, C7,n-Alkane, Isoalkane, Cyclene**Acute inhalation toxicity (vapour)** >23,3 mg/l**Effective dose**

LC50:

Exposure time 4 h**Species:**

Rat

Method

OECD 403

remark

Test was carried out with a similar preparation/mixture.

ingredient Kohlenwasserstoffe, C6, Isoalkane, <5% n-Hexan**Acute inhalation toxicity (vapour)** >20 mg/l**Effective dose**

LC50:

Exposure time 4 h**Species:**

Rat

Method

OECD 403

Acute oral toxicity**ingredient** Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan**Acute toxicity, oral** >5000 mg/kg**Effective dose**

LD50:

Species:

Rat

Method

OECD 401

ingredient Kohlenwasserstoffe, C7,n-Alkane, Isoalkane, Cyclene**Acute toxicity, oral** >5840 mg/kg

Effective dose

LD50:

Species:

Rat

Method

OECD 401

remark

Test was carried out with a similar formulation.

ingredient Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan**Acute toxicity, oral** >5000 mg/kg**Effective dose**

LD50:

Species:

Rat

Method

OECD 401

ingredient Kohlenwasserstoffe, C6, Isoalkane, <5% n-Hexan**Acute toxicity, oral** >5000 mg/kg**Effective dose**

LD50:

Species:

Rat

Method

OECD 401

skin corrosion/irritation**Skin corrosion****Assessment/classification**

Irritating to skin.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity****Acute (short-term) fish toxicity****ingredient** Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan**Acute (short-term) fish toxicity** 12 mg/l**Test duration** 96 h**species**

Oncorhynchus mykiss (Rainbow trout)

ingredient Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan**Acute (short-term) fish toxicity** 11,4 mg/l**Test duration** 96 h**species**

Oncorhynchus mykiss (Rainbow trout)

Method

OECD 203

ingredient Kohlenwasserstoffe, C7,n-Alkane, Isoalkane, Cyclene**Acute (short-term) fish toxicity** 13,4 mg/l**Test duration** 96 h**species**

Oncorhynchus mykiss (Rainbow trout)

ingredient Kohlenwasserstoffe, C6, Isoalkane, <5% n-Hexan**Acute (short-term) fish toxicity** >1 mg/l**Effective dose**

LC50:

Test duration 48 h**species**

Oryzias latipes (Ricefish)

Acute (short-term) toxicity to crustacea**ingredient** Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan**Acute (short-term) toxicity to crustacea** 3 mg/l**Test duration** 48 h**species**

Daphnia magna (Big water flea)

ingredient Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan**Acute (short-term) toxicity to crustacea** 3 mg/l**Test duration** 48 h**species**

Daphnia magna (Big water flea)

Method

OECD 202

ingredient Kohlenwasserstoffe, C7,n-Alkane, Isoalkane, Cyclene**Acute (short-term) toxicity to crustacea** 3 mg/l**Test duration** 48 h**species**

Daphnia magna (Big water flea)

ingredient Kohlenwasserstoffe, C6, Isoalkane, <5% n-Hexan**Acute (short-term) toxicity to crustacea** 3,87 mg/l**Test duration** 48 h**species**

Daphnia magna (Big water flea)

Acute (short-term) toxicity to aquatic algae and cyanobacteria**ingredient** Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan**Acute (short-term) toxicity to aquatic algae and cyanobacteria** 30 mg/l**Effective dose**

NOELR

Test duration 72 h**species**

Pseudokirchneriella subcapitata

ingredient Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan

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

Test duration 72 h

species

Pseudokirchneriella subcapitata

Method

OECD 201

ingredient Kohlenwasserstoffe, C7,n-Alkane, Isoalkane, Cyclene**Acute (short-term) toxicity to aquatic algae and cyanobacteria** 10 mg/l**Effective dose**

NOELR

Test duration 72 h

species

Pseudokirchneriella subcapitata

ingredient Kohlenwasserstoffe, C6, Isoalkane, <5% n-Hexan**Acute (short-term) toxicity to aquatic algae and cyanobacteria** 30 mg/l**Effective dose**

NOELR

Test duration 72 h

species

Pseudokirchneriella subcapitata

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Appropriate disposal / Product****Appropriate disposal/Product:**

Waste disposal according to official state regulations.

Appropriate disposal / Package**Contaminated packaging:**

Completely emptied packings can be re-cycled.

Waste code packaging 150104**Special monitoring requiring wastes:** No**Waste name**

metallic packaging

remark
Additional information

Remove according to the regulations. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

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 | No | No | No |
| 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 |
| Limited quantity (LQ) | 1 L |
| tunnel restriction code | D |
| transport category | 2 |

Additional information - Sea transport (IMDG)

| | |
|------------------|----|
| Marine pollutant | No |
| remark | LQ |

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
Authorisations and/or restrictions on use
Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

National regulations
Germany
Water hazard class (WGK)

slightly hazardous to water (WGK 1)

source

Classification according to VwVwS, Annex 4.

15.2 Chemical Safety Assessment

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

SECTION 16: Other information**Key literature references and sources for data**

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.