

**MATERIAL SAFETY DATA SHEET**

**PRODUCT NAME : ANTIKOR-RS AEROSOL**

**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]**

Manufacture of plastics products, including compounding and conversion  
Manufacture of basic metals, including alloys

**Product categories [PC]**

Lubricants, greases, release products  
Anti-corrosive agent

**Process categories [PROC]**

Industrial spraying

**1.3 Details of the supplier of the safety data sheet**

**Supplier**

Erodex UK Ltd  
Tipper Industrial Estate, Park Road  
Halesowen, West Midlands, B63 2RH  
+44 (0)1384 892011  
sales@erodex.com  
www.erodex.com

**1.4 Emergency telephone number**

Emergency telephone number  
+49 172 2535524

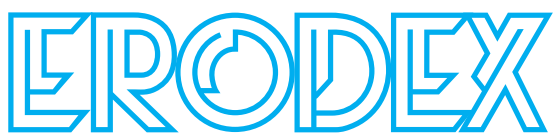
**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Classification according to Directive 67/548/EEC or 1999/45/EC

Categories of danger

R52/53



T H E L E A D I N G E D G E

## PRODUCT DATA SHEET

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 (67/548/EEC or 1999/45/EC)

R-phrases

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Special provisions concerning the labelling of certain mixtures

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

### S-phrases

S2 Keep out of the reach of children.

S16 Keep away from sources of ignition. - No smoking.

S23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

S51 Use only in well-ventilated areas.

S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

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:

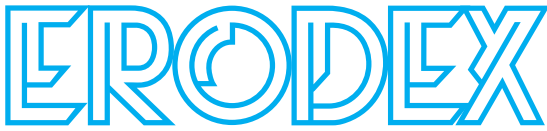
H411 Toxic to aquatic life with long lasting effects.

### Precautionary Statements:

#### General:

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

P102 Keep out of reach of children.



T H E L E A D I N G E D G E

## PRODUCT DATA SHEET

### 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 Preparation related information

#### Hazardous ingredients

propane 5 - 10 %

CAS 74-98-6

EC 200-827-9

INDEX 601-003-00-5

F+ R12

Flam. Gas 1, H220

butane 10 - 30 %

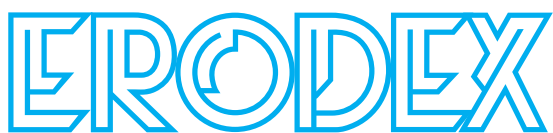
CAS 106-97-8

EC 203-448-7

INDEX 601-004-00-0

F+ R12

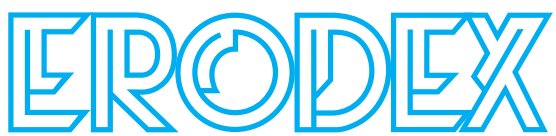
Flam. Gas 1, H220



T H E L E A D I N G E D G E

## PRODUCT DATA SHEET

n-hexane CAS 110-54-3 EC 203-777-6 INDEX 601-037-00-0 F R11; Repr.Cat.3 R62; Xn R65-48/20; Xi R38; R67; N R51-53 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	<3 %
cyclohexane CAS 110-82-7 EC 203-806-2 INDEX 601-017-00-1 F R11; Xn R65; Xi R38; R67; N R50-53 Flam. Liq. 2, H225 / Skin Irrit. 2, H315 / STOT SE 3, H336 / Asp. Tox. 1, H304 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410	<1 %
Kohlenwasserstoffe, C6, Isoalkane, <5% n-Hexan EC 931-254-9 Skin Irrit. 2, H315 / STOT SE 3, H336 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / Flam. Liq. 2, H225	<=25 %
Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan EC 926-605-8 STOT SE 3, H336 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / Flam. Liq. 2, H225	<=60 %
Kohlenwasserstoffe, C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexan EC 921-024-6 Skin Irrit. 2, H315 / STOT SE 3, H336 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / Flam. Liq. 2, H225	<=45 %
Kohlenwasserstoffe, C7,n-Alkane, Isoalkane, Cyclene EC 927-510-4 Skin Irrit. 2, H315 / STOT SE 3, H336 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / Flam. Liq. 2, H225	<=35 %



T H E L E A D I N G E D G E

## PRODUCT DATA SHEET

### SECTION 4: FIRST AID MEASURE

#### 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: FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>)

Extinguishing powder

Water spray

alcohol resistant foam

Unsuitable extinguishing media

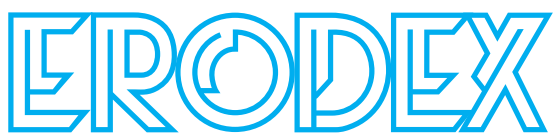
Full water jet

#### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide.

Carbon dioxide (CO<sub>2</sub>)



T H E L E A D I N G E D G E

## PRODUCT DATA SHEET

### 5.3 Advice for fire fighters

Special protective equipment for fire fighters:  
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

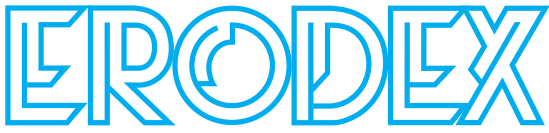
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## SECTION 7: HANDLING AND STORAGE

### 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.



T H E L E A D I N G E D G E

## PRODUCT DATA SHEET

### 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

No data available



### 8.2 Exposure controls

#### Personal protection equipment

##### Eye/face protection

Suitable eye protection: Goggles

##### 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 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 <sup>3</sup>	at °C: 20 °C

Parameter	Method - source - remark
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
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

Acute toxicity, dermal

Effective dose:

Species:

Method:

ingredient

Acute toxicity, dermal

Effective dose:

Species:

Method

remark

ingredient

Acute toxicity, dermal

Effective dose

Species:

Method

ingredient

Acute toxicity, dermal

Effective dose

Species:

Method

Acute inhalation toxicity (gas)

ingredient

Acute inhalation toxicity (gas)

Effective dose

Exposure time

Species:

ingredient propane

Effective dose

Exposure time

Species:

ingredient

Acute inhalation toxicity (gas)

Effective dose

Exposure time

Species:

Method

Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan  
>2000 mg/kg

LD50:

Rabbit

OECD 402

Kohlenwasserstoffe, C7,n-Alkane, Isoalkane, Cyclene

>2920 mg/kg

LD50:

Rat

OECD 402

Test was carried out with a similar preparation/mixture.

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

>2000 mg/kg

LD50:

Rat

OECD 402

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

>3000 mg/kg

LC50:

Rat

OECD 402

butane

658 mg/l

LC50:

4 h

Rat

Acute inhalation toxicity (gas) >20 mg/l

LC50:

4 h

Rat

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

>20 mg/l

LC50:

4 h

Rat

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:	Waste disposal according to official state regulations.
Appropriate disposal / Package	
Contaminated packaging:	Completely emptied packings can be re-cycled.
Waste code packaging	150104
Waste requires special monitoring:	No
Waste name	Metallic packaging

Remark

Additional information

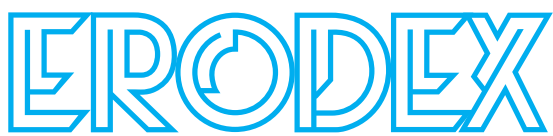
Remove according to the regulations. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

## SECTION 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATADGR)
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
remark	LQ



T H E L E A D I N G E D G E

## PRODUCT DATA SHEET

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.