

Safety Data Sheet

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



Trade name : rhenus ADC 2
Revision date : 27.09.2016
Print date : 07.11.2016

Version (Revision) : 6.1.0 (6.0.0)

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

1.1 Product identifier

rhenus ADC 2

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

Relevant identified uses

Lubricants, greases, release products (Fat) .

1.3 Details of the supplier of the safety data sheet

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

Rhenus Lub GmbH & Co KG

Street : Erkelenzer Str. 36

Postal code/city : 41179 Mönchengladbach

Telephone : +49 21 61 58 69 - 0

Telefax : +49 21 61 58 69 93

Information contact : Application technology - technical information:

+49 21 61 58 69 74 (Lubricants, greases, release products). Only available during office hours.

+49 21 61 58 69 77 (cooling grease). Only available during office hours.

QHSE-Information about Material-Safety-Data-Sheet:

+49 21 61 58 69 267 (Safety-Data-Sheet, QHSE [Quality-Health-Safety-Environment]). Only available during office hours.

eMail: sicherheitsdatenblatt@rhenusweb.de

1.4 Emergency telephone number

International (all languages, all informations, all time 24 h / 365 d): GBK Gefahrgutbüro GmbH +49 61 32 84 46 3.

National

+49 228 19 24 0

SECTION 2: Hazards identification

The classification was made according to the latest editions of the EC-lists, and expanded upon from company and literature data.

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 : Category 3 ; Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description

Base oil with thickener and additives.

Hazardous ingredients

2,6-Di-tert-Butyl-p-cresol ; REACH registration No. : 01-2119555270-XX ; EC No. : 204-881-4; CAS No. : 128-37-0

Weight fraction : $\geq 0 - < 1$ %

Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

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(Z)-N-METHYL-N-(1-OXO-9-OCTADECENYL)GLYCINE ; EC No. : 203-749-3; CAS No. : 110-25-8
Weight fraction : $\geq 0 - < 1 \%$
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Aquatic Acute 1 ; H400

Additional information

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

3.3 Additional information

Highly refined mineral oil (IP 346 DMSO extract < 3%).

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

Following inhalation

No special measures are necessary. Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

In case of skin contact

After contact with skin, first remove product with a dry cloth and then wash the skin with plenty of water.

After eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Wash with plenty of water. Call a physician immediately.

After ingestion

Do NOT induce vomiting. Call a physician immediately.

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 spray jet , Foam , Extinguishing powder , Carbon dioxide (CO₂) , Sand .
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

High power water jet .

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon dioxide (CO₂) , Nitrogen oxides (NO_x). Sulphur dioxide (SO₂). Carbon monoxide Aliphatic and aromatic pyrolysis products.

5.3 Advice for firefighters

Special protective equipment for firefighters

Use suitable breathing apparatus.

5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothes. Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

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6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Special danger of slipping by leaking/spilling product. Take up mechanically. Disposal: see section 13 .

6.4 Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No hazardous reaction when handled and stored according to provisions. (Health hazards : None) . Avoid contact with skin, eyes and clothes.

Protective measures

Measures to prevent aerosol and dust generation

No special measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Dispose according to legislation.

Hints on joint storage

Possibility of hazardous reactions : Oxidising agent .

Storage class : 10

Storage class (TRGS 510) : 10

Further information on storage conditions

Keep/Store only in original container. Notice the directions for use on the label.

Do not store at temperatures below : 0 °C .

Recommended storage temperature : 5 °C - 40 °C .

Protect against : Protect against direct sunlight. Keep away from heat.

Storage stability : > 6 months (5 °C - 40 °C) .

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

Danger : generation/formation of aerosols Limit value : 10 mg/m³ .

8.1 Control parameters

Occupational exposure limit values

WHITE MINERAL OIL (PETROLEUM), HIGHLY REFINED PETROLEUM MINERAL OIL, OBTAINED FROM INTENSIVE TREATMENT OF A PETROLEUM FRACTION WITH SULFURIC ACID AND OLEUM, OR BY HYDROGENATION, OR BY A COMBINATION OF HYDROGENATION AND ACID TREATMENT, CONSISTS OF SATURATED HYDROCARBONS PREDOMINATELY C15-C50 ; CAS No. : 8042-47-5

Limit value type (country of origin) : TRGS 900 (D)

Parameter : alveolar particles

Limit value : 5 mg/m³

Peak limitation : 4(II)

Remark : DFG, Y

Version :

2,6-Di-tert-Butyl-p-cresol ; CAS No. : 128-37-0

Limit value type (country of origin) : TRGS 900 (D)

Parameter : measured as the inhaleable fraction

Limit value : 10 mg/m³

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Limit value type (country of origin) : TRGS 900 (D)
Parameter : alveolar particles
Limit value : 3 mg/m³
Version :

8.2 Exposure controls

Appropriate engineering controls

See protective measures under point 7 and 8.

Personal protection equipment

General health and safety measures No special measures are necessary.

Eye/face protection

Additional eye protection measures : 39 - Wear eye/face protection.

Skin protection

Hand protection

Tested protective gloves must be worn Breakthrough time (maximum wearing time) : 4 hours (NBR (Nitrile rubber) , Thickness of the glove material : 0,4 mm) . See information supplied by the manufacturer.

Respiratory protection

No special measures are necessary.

General health and safety measures

Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. 13 - Keep away from food, drink and animal feedingstuffs. Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Paste

Odour

characteristic

Safety relevant basis data

Melting point/melting range :	(1013 hPa)	>	240	°C
Initial boiling point and boiling range :	(1013 hPa)	>	250	°C
Flash point :		>	200	°C
Danger of explosion:			No explosive hazard	
Density :	(20 °C)	approx.	0,94	g/cm ³ DIN 51757
Solubility in / Miscibility with Water:			Not miscible or difficult to mix.	

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Oxidising agent, strong.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses. Decomposition temperature (°C): > 240 °C . Thermal decomposition can lead to the escape of irritating gases and vapours. Hazardous decomposition products : Carbon monoxide Carbon dioxide. aldehydes. Ketone , Sulphur oxides , Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (2,6-Di-tert-Butyl-p-cresol ; CAS No. : 128-37-0)
Exposure route :	Oral
Species :	Rat
Effective dose :	890 - 2930 mg/kg
Parameter :	LD50 (2,6-Di-tert-Butyl-p-cresol ; CAS No. : 128-37-0)
Exposure route :	Oral
Species :	Mouse
Effective dose :	1040 mg/kg
Parameter :	LD50 ((Z)-N-METHYL-N-(1-OXO-9-OCTADECENYL)GLYCINE ; CAS No. : 110-25-8)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg

Acute dermal toxicity

Parameter :	LD50 (2,6-Di-tert-Butyl-p-cresol ; CAS No. : 128-37-0)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg

Acute inhalation toxicity

Parameter :	LC50 ((Z)-N-METHYL-N-(1-OXO-9-OCTADECENYL)GLYCINE ; CAS No. : 110-25-8)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	= 1,37 mg/l
Exposure time :	4 h

Irritant and corrosive effects

Primary irritation to the skin

Practical experience/human evidence

No hazardous reaction when handled and stored according to provisions. (Health hazards : None known.)

Sensitisation

No information available.

SECTION 12: Ecological information

Do not allow to enter into surface water or drains.

12.1 Toxicity

Aquatic toxicity

Acute (short-term) algae toxicity

Parameter :	EC0 (2,6-Di-tert-Butyl-p-cresol ; CAS No. : 128-37-0)
Species :	Daphnia
Effective dose :	> 0,3 mg/l

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Exposure time : 48 h
Parameter : EC50 (2,6-Di-tert-Butyl-p-cresol ; CAS No. : 128-37-0)
Species : Algae
Effective dose : > 0,42 mg/l
Exposure time : 72 h
Parameter : EC50 ((Z)-N-METHYL-N-(1-OXO-9-OCTADECENYL)GLYCINE ; CAS No. : 110-25-8)
Species : Daphnia
Effective dose : = 0,68 mg/l
Exposure time : 24 h

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

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Waste treatment options

Appropriate disposal / Product

ASN 12 01 12: spent waxes and fats.

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Completely emptied packages can be recycled. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

Other disposal recommendations

Dispose according to legislation. Do not allow to enter into surface water or drains.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

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14.8 Additional information

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU legislation

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

National regulations

Water hazard class (WGK)

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

Other regulations, restrictions and prohibition regulations

Betriebssicherheitsverordnung (BetrSichV)

No flammable liquid according to BetrSichV.

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

01. Uses advised against

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)

H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very 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

Please refer to our internet website for more information: See section 1.

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.