



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

1.1 Product identifier

arecal Kühl-Schmier-Konzentrat
Article number: 08966005

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

1.2.1 Relevant uses

Metalworking

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Kellner & Kunz AG
Boschstr. 37
4600 Wels / AUSTRIA
Phone 0043-7242-484-0
Fax 0043-7242-484-924
Homepage www.reca.co.at
E-mail info@reca.co.at

Address enquiries to

Technical information info@reca.co.at
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +43 (0) 1 406 43 43 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Skin Irrit. 2: H315 Causes skin irritation.
Eye Irrit. 2: H319 Causes serious eye irritation.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Signal word

WARNING

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves / eye protection / face protection.

2.3 Other hazards

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

none



SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

| Range [%] | Substance |
|------------|---|
| 1 - <5 | Isotridecan-1-ol |
| | CAS: 27458-92-0, EINECS/ELINCS: 248-469-2, Reg-No.: 01-2119488528-21 |
| | GHS/CLP: Skin Irrit. 2: H315 - Aquatic Acute 1: H400 |
| 1 - <5 | Polymer |
| | GHS/CLP: Eye Irrit. 2: H319 - Skin Irrit. 2: H315 |
| 1 - <5 | Alcohols, C16-18 and C18-unsatd., ethoxylated |
| | CAS: 68920-66-1, EINECS/ELINCS: 500-236-9 |
| | GHS/CLP: Skin Irrit. 2: H315 |
| 1 - <5 | 2-(2-Butoxyethoxy)ethanol |
| | CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX |
| | GHS/CLP: Eye Irrit. 2: H319 |
| 0,1 < 0,25 | Pyridine-2-thiol 1-oxide, sodium salt |
| | CAS: 3811-73-2, EINECS/ELINCS: 223-296-5 |
| | GHS/CLP: Acute Tox. 4: H302 H312 H332 - Aquatic Acute 1: H400 - Eye Irrit. 2: H319 - Skin Irrit. 2: H315, M = 100 |

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Seek medical advice immediately.
Rinse out mouth and give plenty of water to drink.
Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam, dry powder, water spray jet, carbon dioxide.

Extinguishing media that must not be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NOx).
Sulphur oxides (SOx).



5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

Avoid contact with eyes and skin.

Take off contaminated clothing and wash before reuse.

Do not eat, drink, smoke or take drugs at work.

Wash hands before breaks and after work.

Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Keep container in a well-ventilated place.

Keep container tightly closed.

Keep away from frost.

7.3 Specific end use(s)

See product use, SECTION 1.2



SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

| |
|---|
| Substance |
| 2-(2-Butoxyethoxy)ethanol |
| CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX |
| Long-term exposure: 10 ppm, 67,5 mg/m ³ |
| Short-term exposure (15-minute): 15 ppm, 101,2 mg/m ³ |

Ingredients with occupational exposure limits to be monitored (EU)

| |
|---|
| Substance / EC LIMIT VALUES |
| 2-(2-Butoxyethoxy)ethanol |
| CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX |
| Eight hours: 10 ppm, 67,5 mg/m ³ |
| Short-term (15-minute): 15 ppm, 101,2 mg/m ³ |

DNEL

| |
|--|
| Substance |
| 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5 |
| Industrial, inhalative, Long-term - systemic effects: 67,5 mg/m ³ . |
| Industrial, dermal, Long-term - systemic effects: 83 mg/kg bw/day. |
| Industrial, inhalative, Long-term - local effects: 67,5 mg/m ³ . |
| Industrial, inhalative, Acute - local effects: 101,2 mg/m ³ . |
| general population, inhalative, Acute - local effects: 60,7 mg/m ³ . |
| general population, inhalative, Long-term - systemic effects: 40,5 mg/m ³ . |
| general population, dermal, Long-term - systemic effects: 50 mg/kg bw/day. |
| general population, inhalative, Long-term - local effects: 40,5 mg/m ³ . |
| general population, oral, Long-term - systemic effects: 5 mg/kg bw/day. |
| Isotridecan-1-ol, CAS: 27458-92-0 |
| Industrial, dermal, Long-term - systemic effects: 7.5 mg/kg bw/day. |
| Industrial, inhalative, Long-term - systemic effects: 26.5 mg/m ³ . |
| general population, oral, Long-term - systemic effects: 1.9 mg/kg bw/day. |
| general population, inhalative, Long-term - systemic effects: 7.5 mg/m ³ . |
| general population, dermal, Long-term - systemic effects: 3.75 mg/kg bw/day. |

PNEC

| |
|--|
| Substance |
| 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5 |
| oral (food), 56 mg/kg. |
| soil, 0,32 mg/kg. |
| freshwater, 1,1 mg/l. |
| seawater, 0,11 mg/l. |
| sediment (freshwater), 4,4 mg/kg. |
| sediment (seawater), 0,44 mg/kg. |
| sewage treatment plants (STP), 200 mg/l. |
| Isotridecan-1-ol, CAS: 27458-92-0 |
| terrestrial, 314 µg/kg soil dw. |
| sewage treatment plants (STP), 10 mg/L. |
| sediment (seawater), 2.08 µg/kg. |



| |
|------------------------------------|
| sediment (freshwater), 20.8 µg/kg. |
|------------------------------------|

| |
|--------------------|
| seawater, 18 ng/L. |
|--------------------|

| |
|-----------------------|
| freshwater, 180 ng/L. |
|-----------------------|

8.2 Exposure controls

| | |
|--|--|
| Additional advice on system design | Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances. |
| Eye protection | Safety glasses. (EN 166:2001) |
| Hand protection | The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: 0,7 mm Butyl rubber, >480 min (EN 374-1/-2/-3). In splash contact: 0,4 mm natural latex, >120 min (EN 374-1/-2/-3). |
| Skin protection | light protective clothing |
| Other | Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. |
| Respiratory protection | Not required under normal conditions. |
| Thermal hazards | No information available. |
| Delimitation and monitoring of the environmental exposition | Protect the environment by applying appropriate control measures to prevent or limit emissions. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Form | liquid |
| Color | green |
| Odor | characteristic |
| Odour threshold | No information available. |
| pH-value | 9,1 (50 g/l) (DIN 51369) |
| pH-value [1%] | No information available. |
| Boiling point [°C] | No information available. |
| Flash point [°C] | not applicable |
| Flammability (solid, gas) [°C] | No information available. |
| Lower explosion limit | not applicable |
| Upper explosion limit | not applicable |
| Oxidising properties | no |
| Vapour pressure/gas pressure [kPa] | No information available. |
| Density [g/ml] | 0,92 (DIN EN ISO 12185) (15 °C / 59,0 °F) |
| Bulk density [kg/m³] | not applicable |
| Solubility in water | miscible |
| Partition coefficient [n-octanol/water] | No information available. |
| Viscosity | not applicable |
| Relative vapour density determined in air | not applicable |
| Evaporation speed | not applicable |
| Melting point [°C] | No information available. |
| Autoignition temperature [°C] | not applicable |
| Decomposition temperature [°C] | No information available. |

9.2 Other information

none



SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with alkalis (lyes).

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.



SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| |
|---|
| Product |
| dermal, Based on the available information, the classification criteria are not fulfilled.: |
| ATE-mix, inhalativ (mist), Rat: > 50 mg/l (4 h). |
| ATE-mix, oral, Rat: > 5000 mg/kg. |
| Substance |
| Pyridine-2-thiol 1-oxide, sodium salt, CAS: 3811-73-2 |
| LD50, dermal, Rabbit: 1800 mg/kg. |
| LD50, oral, Rat: 1500 mg/kg. |
| 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5 |
| LD50, dermal, Rabbit: 2764 mg/kg bw (OECD 402). |
| LD50, oral, mouse: 2410 mg/kg bw (OECD 401). |
| Isotridecan-1-ol, CAS: 27458-92-0 |
| LD50, dermal, Rat: 7.07 mL/kg. |
| LD50, oral, Rat: 2 000 mg/kg. |

| | |
|---|--|
| Serious eye damage/irritation | Based on the available information, the classification criteria are fulfilled. Irritant |
| Skin corrosion/irritation | Based on the available information, the classification criteria are fulfilled. Irritant |
| Respiratory or skin sensitisation | Based on the available information, the classification criteria are not fulfilled. |
| Specific target organ toxicity — single exposure | Based on the available information, the classification criteria are not fulfilled. |
| Specific target organ toxicity — repeated exposure | Based on the available information, the classification criteria are not fulfilled. |
| Mutagenicity | Based on the available information, the classification criteria are not fulfilled. |
| Reproduction toxicity | Based on the available information, the classification criteria are not fulfilled. |
| Carcinogenicity | Based on the available information, the classification criteria are not fulfilled. |
| Aspiration hazard | Based on the available information, the classification criteria are not fulfilled. |
| General remarks | |

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



SECTION 12: Ecological information

12.1 Toxicity

| |
|---|
| Product |
| Based on the available information, the classification criteria are not fulfilled.: |
| Substance |
| Pyridine-2-thiol 1-oxide, sodium salt, CAS: 3811-73-2 |
| LC50, (96h), Rainbow trout: 3 - 11 µg/l (lit.). |
| LC50, (96h), Oncorhynchus mykiss: 1300 mg/l. |
| EC50, (48h), Daphnia magna: 0,15 mg/l. |
| 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5 |
| LC50, (96h), Lepomis macrochirus: 1300 mg/l (OECD 203). |
| EC50, (96h), Desmodesmus subspicatus: >100 mg/l (OECD 201). |
| EC50, (48h), Daphnia magna: >100 mg/l (EU C.2). |
| Isotridecan-1-ol, CAS: 27458-92-0 |
| LC50, (96h), fish: 550 µg/L. |
| EC50, (72h), Algae: 254 - 297 µg/L. |
| EC50, (48h), Invertebrates: 391 µg/L. |

12.2 Persistence and degradability

| | |
|--|---------------------------|
| Behaviour in environment compartments | No information available. |
| Behaviour in sewage plant | No information available. |
| Biological 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

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecotoxicological data are not available.

Do not discharge product unmonitored into the environment.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material c It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Observe national and local legal requirements.
Dispose of as hazardous waste.

Waste no. (recommended) 120109*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

**14.4 Packing group**

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not determined

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions for people Observe employment restrictions for young people.

- VOC (2010/75/CE) No information available.

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information**16.1 Hazard statements (SECTION 03)**

H400 Very toxic to aquatic life.
 H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.



16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
 Eye Irrit. 2: H319 Causes serious eye irritation. (Expert judgement)

Modified position

SECTION 3 deleted: 3,3'-Methylenebis[5-methyloxazolidine]
 SECTION 11 deleted: Calculation method
 SECTION 11 deleted: Calculation method
 SECTION 12 been added: Ecotoxicological data are not available.
 SECTION 12 deleted: Ecological data of complete product are not available.
 SECTION 16 been added: Expert judgement
 SECTION 16 deleted: Calculation method

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