



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

1.1 Product identifier

arecal Sprühkleber
Article number: 0894042500

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

1.2.1 Relevant uses

Adhesive

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]

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.
Skin Irrit. 2: H315 Causes skin irritation.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.
STOT SE 3: H336 May cause drowsiness or dizziness.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.



2.2 Label elements

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

Hazard pictograms



Signal word

DANGER

Contains:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Hydrocarbons, C6, isoalkanes, <5% n-hexane

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H411 Toxic to aquatic life with long lasting effects.
H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P261 Avoid breathing vapours / spray.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves.

2.3 Other hazards

Human health dangers

Has a degreasing effect on the skin.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

none

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

| Range [%] | Substance |
|-----------|---|
| 20 - <50 | Dimethyl ether CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, Reg-No.: 01-2119472128-37-XXXX GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280 |
| 20 - <50 | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics EINECS/ELINCS: 927-510-4, Reg-No.: 01-2119475515-33-XXXX GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411 |
| 10 - <20 | Hydrocarbons, C6, isoalkanes, <5% n-hexane EINECS/ELINCS: 931-254-9, EU-INDEX: 649-328-00-1, Reg-No.: 01-2119484651-34-XXXX GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411 |

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 | Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink. |

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Allergic reactions
Headache

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.

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)
Not combusted hydrocarbons.
Bursting aerosols can be forcibly projected from a fire.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
Use personal protective equipment.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).
Dispose of absorbed material in accordance with the regulations.



6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Use solvent-resistant equipment.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Vapours can form an explosive mixture with air.

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

Wash hands before breaks and after work.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Keep container in a well-ventilated place.

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

Keep in a cool place, heat causes increase in pressure and risk of bursting.

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 |
| Dimethyl ether |
| CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, Reg-No.: 01-2119472128-37-XXXX |
| Long-term exposure: 400 ppm, 766 mg/m ³ |
| Short-term exposure (15-minute): 500 ppm, 958 mg/m ³ |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics |
| EINECS/ELINCS: 927-510-4, Reg-No.: 01-2119475515-33-XXXX |
| Long-term exposure: 1200 mg/m ³ |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane |
| EINECS/ELINCS: 931-254-9, EU-INDEX: 649-328-00-1, Reg-No.: 01-2119484651-34-XXXX |
| Long-term exposure: 1200 mg/m ³ |

Ingredients with occupational exposure limits to be monitored (EU)

| |
|---|
| Substance / EC LIMIT VALUES |
| Dimethyl ether |
| CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, Reg-No.: 01-2119472128-37-XXXX |
| Eight hours: 1000 ppm, 1920 mg/m ³ |

DNEL

| |
|--|
| Substance |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane |
| Industrial, inhalative, Long-term - systemic effects: 5306 mg/m ³ . |
| Industrial, dermal, Long-term - systemic effects: 13964 mg/kg bw/d. |
| general population, oral, Long-term - systemic effects: 1301 mg/kg bw/d. |
| general population, dermal, Long-term - systemic effects: 1377 mg/kg bw/d. |
| general population, inhalative, Long-term - systemic effects: 1131 mg/m ³ . |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics |
| Industrial, inhalative, Long-term - systemic effects: 2085 mg/m ³ . |
| Industrial, dermal, Long-term - systemic effects: 300 mg/kg bw/d. |
| general population, oral, Long-term - systemic effects: 149 mg/kg bw/d. |
| general population, inhalative, Long-term - systemic effects: 477 mg/m ³ . |
| general population, dermal, Long-term - systemic effects: 149 mg/kg bw/d. |
| Dimethyl ether, CAS: 115-10-6 |
| Industrial, inhalative, Long-term - systemic effects: 1894 mg/m ³ . |
| general population, inhalative, Long-term - systemic effects: 471 mg/m ³ . |

PNEC

| |
|--|
| Substance |
| Dimethyl ether, CAS: 115-10-6 |
| sewage treatment plants (STP), 180 mg/l. |
| soil, 0,045 mg/kg. |
| sediment (seawater), 0,069 mg/kg. |
| sediment (freshwater), 0,681 mg/kg. |
| seawater, 0,016 mg/l. |
| freshwater, 0,155 mg/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: 0,7 mm Butyl rubber, >120 min (EN 374-1/-2/-3). |
| Skin protection | light protective clothing |
| Other | Do not inhale gases/vapours/aerosols. 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 | Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, filter AX (DIN EN 14387). |
| 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 | aerosol |
| Color | beige |
| Odor | solvent-like |
| Odour threshold | No information available. |
| pH-value | not applicable |
| pH-value [1%] | not applicable |
| Boiling point [°C] | not applicable |
| Flash point [°C] | not applicable |
| Flammability (solid, gas) [°C] | not applicable |
| Lower explosion limit | No information available. |
| Upper explosion limit | No information available. |
| Oxidising properties | no |
| Vapour pressure/gas pressure [kPa] | 350 |
| Density [g/ml] | 0,726 |
| Bulk density [kg/m³] | not applicable |
| Solubility in water | insoluble |
| 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] | not applicable |
| Autoignition temperature [°C] | not applicable |
| Decomposition temperature [°C] | not applicable |

9.2 Other information

No information available.



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

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.
Reactions with oxidizing agents.

10.4 Conditions to avoid

Strong heating.
See SECTION 7.2.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Flammable gases/vapours.



SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| |
|---|
| Product |
| inhalative, Based on the available information, the classification criteria are not fulfilled.: |
| dermal, Based on the available information, the classification criteria are not fulfilled.: |
| oral, Based on the available information, the classification criteria are not fulfilled.: |
| Substance |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane |
| LD50, dermal, Rat: > 3000 mg/kg. |
| LD50, oral, Rat: > 3000 mg/kg bw. |
| LC50, inhalative, Rat: > 20 mg/l/4h. |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics |
| LD50, oral, Rat: > 3000 mg/kg bw. |

Serious eye damage/irritation Based on the available information, the classification criteria are not fulfilled.

Skin corrosion/irritation Based on the available information, the classification criteria are fulfilled.
Irritant
Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7]

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 fulfilled.
Vapours may cause drowsiness and dizziness.
Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7]

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 fulfilled.
May be fatal if swallowed and enters airways.

General remarks

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. Toxicological data of complete product are not available.



SECTION 12: Ecological information

12.1 Toxicity

| |
|---|
| Substance |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane |
| LC50, (48h), Daphnia magna: 3,87 mg/l. |
| LC50, (48h), Oryzias latipes: 1 mg/l. |
| NOELR, (72h), Pseudokirchneriella subcapitata: 30 mg/l. |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics |
| EC50, (72h), Pseudokirchneriella subcapitata: 10 - 30 mg/l. |
| EC50, (48h), Daphnia magna: 3 mg/l. |
| NOEC, (21d), Daphnia magna: 0,17 mg/l. |
| NOELR, (72h), Pseudokirchneriella subcapitata: 10 mg/l. |
| LL50, (96h), Oncorhynchus mykiss: > 13,4 mg/l. |
| Dimethyl ether, CAS: 115-10-6 |
| LC50, (96h), Poecilia reticulata: > 4000 mg/l. |
| EC50, (96h), Algae: 154,9 mg/l. |
| EC50, (48h), Daphnia magna: > 4000 mg/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

Dispose of as hazardous waste.
Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended)

160504* gases in pressure containers (including halons) containing dangerous substances

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Dispose full / partially emptied cartridges as hazardous waste in accordance with official regulations.

Waste no. (recommended)

150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID 1950

Inland navigation (ADN) 1950


Marine transport in accordance with IMDG 1950

Air transport in accordance with IATA 1950

**14.2 UN proper shipping name**

Transport by land according to ADR/RID Aerosols

- Classification Code 5F


- Label 

- ADR LQ 1 I

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D)



Inland navigation (ADN) Aerosols

- Classification Code 5F

- Label 


Marine transport in accordance with IMDG Aerosols (Solvent Naphtha)

- EMS F-D, S-U

- Label  

- IMDG LQ 1 I

Air transport in accordance with IATA Aerosols, flammable

- Label 

14.3 Transport hazard class(es)

Transport by land according to ADR/RID 2

Inland navigation (ADN) 2

Marine transport in accordance with IMDG 2.1

Air transport in accordance with IATA 2.1

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 | yes |
| Inland navigation (ADN) | yes |
| Marine transport in accordance with IMDG | MARINE POLLUTANT |
| Air transport in accordance with IATA | yes |

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

No information available.

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) | > 86% |

15.2 Chemical safety assessment

not applicable

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

H280 Contains gas under pressure; may explode if heated.
 H220 Extremely flammable gas.
 H411 Toxic to aquatic life with long lasting effects.
 H336 May cause drowsiness or dizziness.
 H315 Causes skin irritation.
 H304 May be fatal if swallowed and enters airways.
 H225 Highly flammable liquid and vapour.



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

Customs Tariff

35069900

Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229
 Pressurised container: May burst if heated. (Bridging principle "Aerosols")
 Skin Irrit. 2: H315 Causes skin irritation. (Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7])
 Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)
 STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7])
 Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Bridging principle "Aerosols")

Modified position

SECTION 2 been added: Hydrocarbons, C6, isoalkanes, <5% n-hexane
 SECTION 2 been added: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 SECTION 3 been added: Hydrocarbons, C6, isoalkanes, <5% n-hexane
 SECTION 2 deleted: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
 SECTION 3 deleted: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
 SECTION 3 deleted: Tris(nonylphenyl) phosphite
 SECTION 11 deleted: Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7]
 SECTION 11 deleted: May produce an allergic reaction.

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