



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

1.1 Product identifier

S28 Zargenschaum Komp. A
Article number: 08982281A

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

1.2.1 Relevant uses

Sealing material

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]

No classification.

2.2 Label elements

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

Hazard pictograms none

Hazard statements none

Special labelling EUH210 Safety data sheet available on request.

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	2,2'-oxybisethanol
	CAS: 111-46-6, EINECS/ELINCS: 203-872-2, EU-INDEX: 603-140-00-6, Reg-No.: 01-2119457857-21-XXXX
	GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373
1 - <5	2,2'-Dimorpholinyl-diethyl ether
	CAS: 6425-39-4, EINECS/ELINCS: 229-194-7, Reg-No.: 01-2119969278-20-xxxx
	GHS/CLP: Eye Irrit. 2: H319

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

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

Skin contact

Consult a doctor if skin irritation persists.
When in contact with the skin, clean with soap and water.

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

Rinse out mouth and give plenty of water to drink.
In the event of symptoms seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

Headache

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

Alcohol-resistant foam.
Dry powder.
Carbon dioxide.
Water spray jet.

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)

5.3 Advice for firefighters

Use self-contained breathing apparatus.

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

Ensure adequate ventilation.
Use personal protective equipment.

6.2 Environmental precautions

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.

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

Keep only in original container.
Prevent penetration into the ground.
Do not store together with food and animal food/diet.
Keep in a cool place. Store in a dry place.
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'-oxybisethanol
CAS: 111-46-6, EINECS/ELINCS: 203-872-2, EU-INDEX: 603-140-00-6, Reg-No.: 01-2119457857-21-XXXX
Long-term exposure: 23 ppm, 101 mg/m ³

DNEL

Substance
2-2'-oxybisethanol, CAS: 111-46-6
Industrial, inhalative, Long-term - local effects: 60 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 43 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 21 mg/kg bw/day.
general population, inhalative, Long-term - local effects: 12 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 12 mg/m ³ .
2,2'-Dimorpholinyl-diethyl ether, CAS: 6425-39-4
Industrial, dermal, Long-term - systemic effects: 1 mg/kg bw/d.
Industrial, inhalative, Long-term - systemic effects: 7,28 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 1,8 mg/m ³ .
general population, oral, Long-term - systemic effects: 0,5 mg/kg bw/d.
general population, dermal, Long-term - systemic effects: 0,5 mg/kg bw/d.

PNEC

Substance
2-2'-oxybisethanol, CAS: 111-46-6
soil, 1,53 mg/kg soil dw.
sediment (seawater), 2,09 mg/kg sediment dw.
sediment (freshwater), 20,9 mg/kg sediment dw.
sewage treatment plants (STP), 199,5 mg/l.
seawater, 1 mg/l.
freshwater, 10 mg/l.
2,2'-Dimorpholinyl-diethyl ether, CAS: 6425-39-4
oral (food), 10 mg/kg food.
soil, 1,58 mg/kg dw.
sediment (seawater), 0,82 mg/kg dw.
sediment (freshwater), 8,2 mg/kg dw.
sewage treatment plants (STP), 100 mg/l.
seawater, 0,01 mg/l.
freshwater, 0,1 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. 0,7 mm Butyl rubber, >480 min (EN 374-1/-2/-3).
Skin protection	Not required under normal conditions.
Other	Avoid contact with eyes and skin.
Respiratory protection	Not required under normal conditions.
Thermal hazards	not determined
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	see product designation
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	298
Flash point [°C]	164
Flammability (solid, gas) [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not determined
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not determined

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**

No hazardous reactions known.

10.4 Conditions to avoid

See SECTION 7

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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.:
ATE-mix, oral, > 2000 mg/kg.
Substance
2-2'-oxybisethanol, CAS: 111-46-6
LD50, dermal, Rabbit: 11890 mg/kg.
LD50, oral, Rat: 12565 mg/kg.
LC50, inhalative, Rat: >4,6 mg/l air.
2,2'-Dimorpholinyl-diethyl ether, CAS: 6425-39-4
LD50, dermal, Rat: > 2000 mg/kg.
LD50, oral, > 2000 mg/kg bw.
LC50, inhalative, Rat: > 0,21 mg/l.

Serious eye damage/irritation	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled. Calculation method
Skin corrosion/irritation	Does not contain a relevant substance that meets the classification criteria.
Respiratory or skin sensitisation	Does not contain a relevant substance that meets the classification criteria.
Specific target organ toxicity — single exposure	Does not contain a relevant substance that meets the classification criteria.
Specific target organ toxicity — repeated exposure	Does not contain a relevant substance that meets the classification criteria.
Mutagenicity	Does not contain a relevant substance that meets the classification criteria.
Reproduction toxicity	Does not contain a relevant substance that meets the classification criteria.
Carcinogenicity	Does not contain a relevant substance that meets the classification criteria.
Aspiration hazard	Does not contain a relevant substance that meets the classification criteria.
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
2-2'-oxybisethanol, CAS: 111-46-6
LC50, (96h), Pimephales promelas: 75200 mg/l (Lit.) 75200 mg/l (Lit.).
EC50, (24h), Daphnia magna: >10000 mg/l (Lit.) 75200 mg/l (Lit.).
EC5, (8d), Scenedesmus quadricauda (alga): >10000 mg/l (Lit.) 75200 mg/l (Lit.).
2,2'-Dimorpholinyldiethyl ether, CAS: 6425-39-4
LC50, (96h), fish: > 2000 mg/l.
EC50, (48h), Daphnia magna: > 100 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Biological degradability not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

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.

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

Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended)

080410

Contaminated packaging

Untaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150102



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 no

- VOC (2010/75/CE) 19,5 g/L
1,9%

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H373 May cause damage to organs through prolonged or repeated exposure if swallowed. (kidneys)
H302 Harmful if swallowed.
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

Modified position

SECTION 3 been added: 2-2'-oxybisethanol
 SECTION 12 been added: Ecotoxicological data are not available.
 SECTION 12 deleted: Ecological data of complete product are not available.
 SECTION 16 deleted:
 SECTION 16 deleted:

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