



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

1.1 Product identifier

VM-Winter, Comp. A
Article number: 0911020420A

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

1.2.1 Relevant uses

Adhesive mortar for fastening to concrete elements A-Component (Resin)

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
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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)
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SECTION 2: Hazards identification

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

Skin Sens. 1: H317 May cause an allergic skin reaction.
 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

Contains:

Methacrylic acid, monoester with Propan-1,2-diole
 Ethylene dimethacrylate

Hazard statements

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.

Precautionary statements

P261 Avoid breathing vapours.
 P280 Wear protective gloves / eye protection / face protection.
 P333+P313 If skin irritation or rash occurs: Get medical advice / attention.
 P337+P313 If eye irritation persists: Get medical advice / attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.

2.3 Other hazards

Human health dangers

Persons already sensitised to methacrylates may develop allergic reactions when using this product.

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
10 - <20	Ethylene dimethacrylate CAS: 97-90-5, EINECS/ELINCS: 202-617-2, EU-INDEX: 607-114-00-5, Reg-No.: 01-2119965172-38 GHS/CLP: STOT SE 3: H335 - Skin Sens. 1: H317
10 - <25	Methacrylic acid, monoester with Propan-1,2-diole CAS: 27813-02-1, EINECS/ELINCS: 248-666-3, Reg-No.: 01-2119490226-37-XXXX GHS/CLP: Eye Irrit. 2: H319 - Skin Sens. 1: H317
1 - <5	Quartz ($\leq 10\mu\text{m}$) CAS: 14808-60-7, EINECS/ELINCS: 238-878-4 GHS/CLP: STOT RE 1: H372
0,1 - <2,5	1,1'-(p-Tolylimino)dipropan-2-ol CAS: 38668-48-3, EINECS/ELINCS: 254-075-1, Reg-No.: 01-2119980937-17-XXXX GHS/CLP: Acute Tox. 2: H300 - Eye Irrit. 2: H319 - Aquatic Chronic 3: H412

Comment on component parts

The quartz in this preparation is not available on foreseeable use.
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

Remove contaminated soaked clothing immediately and dispose of safely.

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

Rinse mouth.
Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Allergic reactions
Shortness of breath

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

Dry powder.
Foam.
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)
Nitrogen oxides (NOx).



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.

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

Take up mechanically.

Dispose of absorbed material in accordance within the regulations.

Flush away residues with water.

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.

Avoid contact with eyes and skin.

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

Take off contaminated clothing and wash before reuse.

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.

Do not store together with food and animal food/diet.

Keep container in a well-ventilated place.

Keep container tightly closed.

Keep in a cool place. Store in a dry place.

Recommended storage temperature: -20 °C - +25 °C

Keep away from water or from damp surroundings.

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
Quartz ($\leq 10\mu\text{m}$)
CAS: 14808-60-7, EINECS/ELINCS: 238-878-4
Long-term exposure: 0,15 mg/m ³ , HSE, NIOSH, OSHA

DNEL

Substance
Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
Industrial, dermal, Long-term - systemic effects: 4.2 mg/kg bw/d (AF=72).
Industrial, inhalative, Long-term - systemic effects: 14.7 mg/m ³ (AF=18).
general population, inhalative, Long-term - systemic effects: 8.8 mg/m ³ (AF=30).
general population, oral, Long-term - systemic effects: 2.5 mg/kg bw/d (AF=120).
general population, dermal, Long-term - systemic effects: 2.5 mg/kg bw/d (AF=120).
1,1'-(p-Tolylimino)dipropan-2-ol, CAS: 38668-48-3
Industrial, dermal, Long-term - systemic effects: 700 $\mu\text{g/kg bw/day}$.
Industrial, inhalative, Long-term - systemic effects: 2,47 mg/m ³ .
general population, oral, Long-term - systemic effects: 250 $\mu\text{g/kg bw/day}$.
Ethylene dimethacrylate, CAS: 97-90-5
Industrial, dermal, Long-term - systemic effects: 1,3 mg/kg bw/d.
Industrial, inhalative, Long-term - systemic effects: 2,45 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 1,47 mg/m ³ .
general population, oral, Long-term - systemic effects: 100 mg/kg bw/d.
general population, dermal, Long-term - systemic effects: 100 mg/kg bw/d.

PNEC

Substance
Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
sediment (seawater), 6.28 mg/kg dw.
sediment (freshwater), 6.28 mg/kg dw.
sewage treatment plants (STP), 10 mg/L (AF=10).
seawater, 0.904 mg/L (AF=50).
freshwater, 0.904 mg/L (AF=50).
soil, 0.727 mg/kg dw.
1,1'-(p-Tolylimino)dipropan-2-ol, CAS: 38668-48-3
seawater, 0,0017 mg/l.
sewage treatment plants (STP), 199,5 mg/l.
sediment (freshwater), 163 $\mu\text{g/kg sediment dw}$.
freshwater, 0,017 mg/l.
sediment (seawater), 16,3 $\mu\text{g/kg sediment dw}$.
soil, 22,6 $\mu\text{g/kg soil dw}$.
Ethylene dimethacrylate, CAS: 97-90-5
sediment (freshwater), 1,6 mg/kg dw.
freshwater, 139 $\mu\text{g/l}$.
sewage treatment plants (STP), 57 mg/l.
sediment (seawater), 0,16 mg/kg dw.



soil, 239 µg/kg dw.

seawater, 13,9 µg/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. >0,2 mm Nitrile rubber, >480 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	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P2. (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	pasty
Color	light beige
Odor	characteristic
Odour threshold	No information available.
pH-value	No information available.
pH-value [1%]	No information available.
Boiling point [°C]	No information available.
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	1,54 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	No information available.
Viscosity	No information available.
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
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 strong acids.

Reactions with oxidizing agents.

10.4 Conditions to avoid

See SECTION 7

10.5 Incompatible materials

No information available.

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, Rat: > 2000 mg/kg.
Substance
Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
LD50, dermal, Rabbit: > 5000 mg/kg.
LD50, oral, Rat: > 2000 mg/kg (OECD 401).
1,1'-(p-Tolylimino)dipropan-2-ol, CAS: 38668-48-3
LD50, dermal, Rat: >2000 mg/kg.
LD50, oral, Rat: 25 - 200 mg/kg.
Ethylene dimethacrylate, CAS: 97-90-5
LD50, dermal, Rat: > 2000 mg/kg bw.
LD50, oral, Rat: 8300 mL/kg bw.

Serious eye damage/irritation	Based on the available information, the classification criteria are fulfilled. Irritant Calculation method
Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled.
Respiratory or skin sensitisation	Based on the available information, the classification criteria are fulfilled. May cause an allergic skin reaction. Calculation method
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. The contained dangerous materials are not freely available with foreseeable use.
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	

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

Product
Based on the available information, the classification criteria are not fulfilled.:
Substance
Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
LC50, (48h), Leuciscus idus: 493 mg/l (DIN 38412).
EC50, (72h), Pseudokirchneriella subcapitata: 97,2 mg/l (OECD 201).
EC50, (48h), Daphnia magna: 380 mg/l (OECD 202).
NOEC, (72h), Pseudokirchneriella subcapitata: 97,2 mg/l (OECD 201).
NOEC, (21d), Daphnia magna: 24,1 mg/l (OECD 202).
1,1'-(p-Tolylimino)dipropan-2-ol, CAS: 38668-48-3
LC50, (96h), fish: 17 mg/l.
EC50, (48h), Daphnia magna: 28,8 mg/l.
EC50, (72h), Algae: 245 mg/l.
Ethylene dimethacrylate, CAS: 97-90-5
LC50, (96h), Danio rerio: 15,95 mg/l (OECD 203).
EC50, (72h), Algae: 17,3 mg/l.
EC50, (48h), Daphnia magna: 44,9 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

not applicable

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.

Do not discharge product unmonitored into the environment.



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.

Waste no. (recommended)

080409*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

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

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

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) 13,0% (DIN EN ISO 11890-2)

15.2 Chemical safety assessment

not applicable

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

H412 Harmful to aquatic life with long lasting effects.
 H319 Causes serious eye irritation.
 H300 Fatal if swallowed.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H317 May cause an allergic skin reaction.
 H335 May cause respiratory 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 Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
 Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

**Modified position**

SECTION 3 deleted: 1,1'-(p-Tolylimino)dipropan-2-ol

SECTION 3 been added: Ethylene dimethacrylate

SECTION 3 been added: 1,1'-(p-Tolylimino)dipropan-2-ol

SECTION 3 deleted: Ethylene dimethacrylate

SECTION 2 been added: P333+P313 If skin irritation or rash occurs: Get medical advice / attention.

SECTION 2 deleted: P501 Dispose of contents/container in accordance with local/national regulation.

SECTION 2 deleted: H335 May cause respiratory irritation.

SECTION 2 deleted: STOT SE 3

SECTION 2 been added: P337+P313 If eye irritation persists: Get medical advice / attention.

SECTION 4 deleted: Induce the patient to vomit of his own accord only if fully conscious.

SECTION 4 been added: Rinse mouth.

SECTION 4 deleted: Rinse out mouth and give plenty of water to drink.

SECTION 6 deleted: High risk of slipping due to leakage/spillage of product.

SECTION 6 deleted: In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

SECTION 7 been added: Avoid contact with eyes and skin.

SECTION 8 been added: In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.

SECTION 8 deleted: If ventilation is insufficient, wear respiratory protection.

SECTION 8 deleted: Nitrile rubber, >480 min (EN 374-1/-2/-3).

SECTION 9 been added: (20 °C / 68,0 °F)

SECTION 9 deleted:

SECTION 9 deleted: No information available.

SECTION 9 been added: light beige

SECTION 9 deleted: partially miscible

SECTION 9 been added: insoluble

SECTION 9 deleted:

SECTION 11 deleted: Classification was carried out based on substance-specific concentration limits.

SECTION 11 deleted: May cause respiratory irritation.

SECTION 11 deleted: Based on the available information, the classification criteria are fulfilled.

SECTION 11 been added: Based on the available information, the classification criteria are not fulfilled.

SECTION 16 deleted: Calculation method

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