

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Acryl 160****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 Ramsauer GmbH & Co KG
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4822 Bad Goisern / H. / AUSTRIA
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Homepage www.ramsauer.at
E-mail office@ramsauer.at

Address enquiries to**Technical information** office@ramsauer.at**Safety Data Sheet** sdb@chemiebuero.de**1.4 Emergency telephone number****Advisory body** Call NHS 111 or a doctor**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture [REGULATION (GB) CLP]**

No classification.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms none**Signal word** none**Hazard statements** none**Precautionary statements** none**Special labelling** Product treated with preservatives C(M)IT/MIT (3:1) (CAS: 55965-84-9).
EUH210 Safety data sheet available on request.

Contains: 1,2-benzisothiazol-3(2H)-one, Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), 2-Methyl-2H-isothiazolin-3-one. EUH208 May produce an allergic reaction.

2.3 Other hazards**Environmental hazards** Does not contain any PBT or vPvB substances.
Contains no ingredients with endocrine-disrupting properties.**Other hazards** Further hazards were not determined with the current level of knowledge.**SECTION 3: Composition / Information on ingredients****3.1 Substances**

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
0.005 - <0.05	1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5, EINECS/ELINCS: 220-120-9, EU-INDEX: 613-088-00-6, Reg-No.: 01-2120761540-60-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Dam. 1: H318 - Aquatic Acute 1: H400 - Aquatic Chronic 2: H411, M-Factor (acute): 1 SCL [%]: >= 0.05: Skin Sens. 1: H317
0.00015 - <0.0015	Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9, EINECS/ELINCS: 611-341-5, EU-INDEX: 613-167-00-5 GHS/CLP: Acute Tox. 3: H301 - Acute Tox. 2: H310 - Skin Corr. 1C: H314 - Eye Dam. 1: H318 - Skin Sens. 1A: H317 - Acute Tox. 2: H330 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - EUH071, M-Factor (acute): 100, M-Factor (chronic): 100 SCL [%]: 0.0015: Skin Sens. 1A: H317, 0.06 - <0.6: Skin Irrit. 2: H315, 0.6: Skin Corr. 1C: H314, 0.06 - <0.6: Eye Irrit. 2: H319, 0.6: Eye Dam. 1: H318
0.00015 - <0.0015	2-Methyl-2H-isothiazolin-3-one CAS: 2682-20-4, EINECS/ELINCS: 220-239-6, EU-INDEX: 613-326-00-9, Reg-No.: 01-2120764690-50-XXXX GHS/CLP: Acute Tox. 3: H301 H311 - Acute Tox. 2: H330 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Skin Sens. 1A: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - EUH071, M-Factor (acute): 10, M-Factor (chronic): 1 SCL [%]: >=0.0015: Skin Sens. 1A: H317

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.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Allergic reactions

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**

Carbon dioxide.
Water spray jet.
Dry powder.
Foam.

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

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

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

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.

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

No special measures necessary if used correctly.

Wash hands before breaks and after work.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

Do not eat or drink when working.

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.

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
Amorphus Silica
CAS: 112945-52-5, EINECS/ELINCS: 231-545-4, Reg-No.: 01-2119379499-16-XXXX
Long-term exposure: 6 mg/m ³ , total inhalable dust

DNEL

Substance
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
Industrial, inhalative, Acute - local effects, 43 µg/m ³
Industrial, inhalative, Long-term - local effects, 21 µg/m ³
general population, oral, Acute - systemic effects, 53 µg/kg bw/day
general population, oral, Long-term - systemic effects, 27 µg/kg bw/day
general population, inhalative, Acute - local effects, 43 µg/m ³
general population, inhalative, Long-term - local effects, 21 µg/m ³
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
Industrial, dermal, Long-term - systemic effects, 0.966 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 6.81 mg/m ³
general population, dermal, Long-term - systemic effects, 0.345 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 1.2 mg/m ³

PNEC

Substance
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
soil, 47 µg/kg soil dw
sewage treatment plants (STP), 230 µg/L
seawater, 3.39 µg/L
freshwater, 3.39 µg/L
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
soil, 3 mg/kg soil dw
sediment (freshwater), 4.99 µg/kg sediment dw
sediment (freshwater), 49.9 µg/kg sediment dw
seawater, 0.403 µg/L
freshwater, 4.03 µg/L
sewage treatment plants (STP), 1.03 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	0.7 mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	light protective clothing
Other	Avoid contact with eyes and skin. Do not inhale vapours. 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.
Thermal hazards	no
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**

Physical state	pasty
Color	various
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not determined
Boiling point [°C]	not applicable
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]	not determined
Density [g/cm³]	not determined
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	not applicable
Relative vapour density	not applicable
Evaporation speed	not applicable
Melting point [°C]	not applicable
Auto-ignition temperature	not applicable
Decomposition temperature [°C]	not determined
Particle characteristics	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

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 hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity** Based on available data, the classification criteria are not met.

Substance
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
LD50, oral, Rat, 120 mg/kg bw
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
LD50, oral, Rat, 490 - 670 mg/kg bw
Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9
LD50, oral, 64 mg/kg (ECHA. CLH Report)
LD50, oral, Rat, 53 mg/kg

Acute dermal toxicity Based on available data, the classification criteria are not met.

Substance
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
LD50, dermal, Rat, 242 mg/kg bw
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
LD50, dermal, Rat, > 2000 mg/kg bw
Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9
LD50, dermal, Rabbit, 87.12 mg/kg (ECHA. CLH Report)

Acute inhalational toxicity Based on available data, the classification criteria are not met.

Substance
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
LC50, inhalative, Rat, 340 µg/m ³
Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9
LC50, inhalative, Rat, 0.171 mg/l/4h (ECHA. CLH Report)

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Substance
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
in vitro, OECD 437, Can cause irreversible damage to the eyes.

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Substance
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
Rabbit, in vivo, corrosive
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
dermal, Rabbit, In vivo study, non-irritating

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
May cause an allergic skin reaction.

Substance
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
Guinea pig, OECD 429, sensitising
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
dermal, Guinea pig, In vivo study, sensitising

Specific target organ toxicity — single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity — repeated exposure Based on available data, the classification criteria are not met.

Substance
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
NOAEL, oral, Rat, 19 mg/kg bw/day, no adverse effect observed
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
NOAEL, oral, Rat, 69 - 150 mg/kg bw/day, The effects observed are not sufficient for classification.

Mutagenicity Does not contain a relevant substance that meets the classification criteria.

Substance
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
in vitro, OECD 471, no adverse effect observed
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
in vitro, OECD 476, no adverse effect observed

Reproduction toxicity Does not contain a relevant substance that meets the classification criteria.

Substance
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
NOAEL, oral, Rat, 69 mg/kg bw/day, no adverse effect observed
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
NOAEL, oral, Rat, 112 mg/kg bw/day, no adverse effect observed

Carcinogenicity Does not contain a relevant substance that meets the classification criteria.

Substance
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
NOAEL, oral, Rat, 3.1 mg/kg bw/day, no adverse effect observed

Aspiration hazard Based on available data, the classification criteria are not met.

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

Endocrine disrupting properties Contains no ingredients with endocrine-disrupting properties.

Other information none

SECTION 12: Ecological information**12.1 Toxicity**

Substance
2-Methyl-2H-isothiazolin-3-one, CAS: 2682-20-4
LC50, (96h), fish, 4.77 mg/L
EC50, (96h), Algae, 72 µg/L
EC50, (48h), Invertebrates, 934 µg/L
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
LC50, (96h), fish, 2.15 - 22 mg/L
EC50, (72h), Algae, 70 - 150 µg/L
EC50, (48h), Invertebrates, 2.9 - 2.94 mg/L
Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9
LC50, (96h), Oncorhynchus mykiss, 0.19 mg/l
EC50, (48h), Daphnia magna, 0.18 mg/l
ErC50, Skeletonema costatum, 0.003 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 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 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecological data of complete product are not available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. 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

For recycling, consult manufacturer.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended)

080410

Contaminated packaging

Untaminated packaging may be taken for recycling.

Dispose full / partially emptied cartridges as hazardous waste in accordance with official regulations.

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances
150102

SECTION 14: Transport information**14.1 UN number or ID 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 Maritime transport in bulk according to IMO instruments

not applicable

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

EEC-REGULATIONS 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)

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

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

- VOC (2010/75/CE) 0 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information**16.1 Hazard statements (SECTION 3)**

H301+H311 Toxic if swallowed or in contact with skin.
 EUH071 Corrosive to the respiratory tract.
 H410 Very toxic to aquatic life with long lasting effects.
 H330 Fatal if inhaled.
 H314 Causes severe skin burns and eye damage.
 H310 Fatal in contact with skin.
 H301 Toxic if swallowed.
 H411 Toxic to aquatic life with long lasting effects.
 H400 Very toxic to aquatic life.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H315 Causes skin irritation.
 H302 Harmful if swallowed.

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
 EL50 = Median effective loading
 ELINCS = European List of Notified Chemical Substances
 EmS = Emergency Schedules
 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
 IVIS = In vitro irritation score
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 LL50 = Median lethal loading
 LQ = Limited Quantities
 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 2 been added: 2-Methyl-2H-isothiazolin-3-one

SECTION 3 been added: 2-Methyl-2H-isothiazolin-3-one

SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 6 been added: Use personal protective equipment (protective gloves, safety glasses, protective clothing).

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