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

### 1.1 Product identifier

**Flex Primer**

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

#### 1.2.1 Relevant uses

Primer
Adhesion mediator

#### 1.2.2 Uses advised against

None known.

### 1.3 Details of the supplier of the safety data sheet

**Company**

Ramsauer GmbH & Co KG
Sarstein 17
4822 Bad Goisern / H. / AUSTRIA
Phone +43(0)6135 8205-0
Fax +43(0)6135 8205-250
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** +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

**Signal word** none

**Hazard statements** none

**Precautionary statements** none

**Special labelling** EUH210 Safety data sheet available on request.
Product treated with preservatives C(M)IT/MIT (3:1) (CAS: 55965-84-9).

Contains: 1,2-benzisothiazol-3(2H)-one, Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1). 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 |
| | GHS/CLP: Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Skin Sens. 1: H317 - Aquatic Acute 1: H400,<br>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, Reg-No.: 01-2120764691-48-XXXX |
| | 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,<br>M-Factor (acute): 100, M-Factor (chronic): 100 |
| | SCL [%]: 0,6: Eye Dam. 1: H318, 0,06 - <0,6: Eye Irrit. 2: H319, 0,6: Skin Corr. 1C: H314, 0,06 - <0,6: Skin Irrit. 2: H315, 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** 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** When in contact with the skin, clean 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.
Do not induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

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)
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.
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

Use only in well-ventilated areas.

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.

### 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 tightly closed.
Keep container in a well-ventilated place.
Keep in a cool place. Store in a dry place.
Keep away from frost.
Recommended storage temperature: 5 - 25 °C
Protect from light.

### 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)**

not applicable

### 8.2 Exposure controls

| | |
|---|---|
| **Additional advice on system design** | Ensure adequate ventilation on workstation.<br>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** | 0,4 mm Nitrile rubber, >480 min (EN 374-1/-2/-3).<br>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.<br>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.<br>In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.<br>Short term: filter apparatus, combination filter A-P2. (DIN EN 14387) |
| **Thermal hazards** | not applicable |
| **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** | liquid |
| **Color** | white |
| **Odor** | characteristic |
| **Odour threshold** | not determined |
| **pH-value** | 7 - 8 (DIN ISO 976) |
| **pH-value [1%]** | not determined |
| **Boiling point [°C]** | ca. 100 |
| **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]** | ca. 2,3 (20°C) |
| **Density [g/cm³]** | 1,02 (DIN EN ISO 2811-1) (20 °C / 68,0 °F) |
| **Relative density** | not determined |
| **Bulk density [kg/m³]** | not applicable |
| **Solubility in water** | miscible |
| **Solubility other solvents** | No information available. |
| **Partition coefficient [n-octanol/water]** | not determined |
| **Kinematic viscosity** | not determined |
| **Relative vapour density** | not determined |
| **Evaporation speed** | not determined |
| **Melting point [°C]** | ca. 0 |
| **Auto-ignition temperature** | not determined |
| **Decomposition temperature [°C]** | >300 |
| **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

The product is stable under standard conditions.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known if used as directed.

### 10.4 Conditions to avoid

See SECTION 7.2.

### 10.5 Incompatible materials

Strong oxidizing agent.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

| Product |
|---|
| oral, Based on the available information, the classification criteria are not fulfilled. |

| Substance |
|---|
| 1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5 |
| LD50, oral, Rat, 670-784 mg/kg (EPA Guideline) |
| LD50, oral, Rat, 1020 mg/kg |
| NOAEL, oral, Rat, 10 mg/kg/90d (OECD 408) |
| 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.

| Product |
|---|
| dermal, Based on the available information, the classification criteria are not fulfilled. |

| Substance |
|---|
| 1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5 |
| LD50, dermal, Rat, > 5000 mg/kg (EPA OPP 81-2) |
| 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.

| Product |
|---|
| inhalative, Based on the available information, the classification criteria are not fulfilled. |

| Substance |
|---|
| 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 |
| Eye, Rabbit, EPA OPP 81-4 (100 mg), irritant |

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

| Substance |
|---|
| 1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5 |
| dermal, Rabbit, 0,5g, OECD 404, non-irritating |

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

| Substance |
|---|
| 1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5 |
| Guinea pig, 0,5%, OECD 406, 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 |
|---|
| 1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5 |
| NOAEL, oral, 69 mg/kg bw/day (OECD 407) |

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

| Substance |
|---|
| 1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5 |
| Cell culture, OECD 476, no adverse effect observed |

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

| Substance |
|---|
| 1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5 |
| NOAEL, oral, Rat (female), 112 mg/kg bw/day (EPA OPPTS 870.3800) |

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

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

**General remarks**

Toxicological data of complete product are not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Substance |
|---|
| 1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5 |
| LC50, (96h), Oncorhynchus mykiss, 1,4 mg/l (OECD 203) |
| LC50, (96h), Oncorhynchus mykiss, 0,8 mg/l |
| EC50, (72h), Pseudokirchneriella subcapitata, 0,11 mg/l (OECD 201) |
| EC50, (48h), Daphnia magna, 1,05 mg/l (OECD 202) |
| EC50, (48h), Daphnia magna, 4,4 mg/l |
| EC10, (72h), Pseudokirchneriella subcapitata, 0,04 mg/l (OECD 201) |
| 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 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 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other adverse effects

Ecotoxicological data 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**

Coordinate disposal with the authorities if necessary.

**Waste no. (recommended)** 070299

**Contaminated packaging**

Uncontaminated packaging may be taken for recycling.
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

**Waste no. (recommended)** 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 determined

## 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 (2021) |
| **NATIONAL REGULATIONS (GB):** | EH40/2005 Workplace exposure limits (Second edition, published December 2011). |
| **- Observe employment restrictions for people** | none |
| **- VOC (2010/75/CE)** | not determined |

### 15.2 Chemical safety assessment

not applicable

## SECTION 16: Other information

### 16.1 Hazard statements (SECTION 3)

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.
H400 Very toxic to aquatic life.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
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 3 been added: Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1)

SECTION 2 been added: Product treated with preservatives [x].

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

SECTION 8 been added: Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)

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

SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.