

1 Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**Trade name: **IMUNELL BA80****1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the Substance/Mixture: Hygiene. For industrial or commercial purposes only.

1.3 Details of the supplier of the safety data sheet

Imunell GmbH & Co. KG

Edelhofdamm 45, 13465 Berlin, Germany

Tel. +49 30 77 99 22 77, +49 151 688 577 19.

Competent responsible person for the Material Safety Data Sheet: CI Regulatory Department, kontakt@imunell.de.

1.4 Emergency telephone number

Poisons Information Service Munich: Tel. +49 89 19240, available 24h/7d.

2 Hazards identification**2.1 Classification of the substance or mixture**GHS07  Skin Irrit. 2; H315 Causes skin irritation. Eye Irrit. 2; H 319 Causes serious eye irritation. Skin Sens. 1; H317 May cause an allergic skin reaction.**Additional information:** On normal handling and use — due to the low vapour pressure of the ingredients — the mixture is not harmful by inhalation. Therefore, the labeling comprises all potential hazards which might occur on a normal handling and use (CLP, section 1).**2.2 Label elements****Hazard pictograms:**  GHS07.**Signal word:** Warning.**Hazardous components which must be listed on the label:** 2-Methyl-2H-isothiazolin-3-one.**Hazard statements:** H315 Causes skin irritation. H317 May cause an allergic skin reaction. H 319 Causes serious eye irritation.**Precautionary statements:** P262 Do not get in eyes, on skin, or on clothing.**2.3 Other hazards**

The classification does not consider the inhalation toxic properties of the relevant ingredients, since they were determined by a study of aerosol or dust. On normal handling and use — due to the low vapour pressure of the ingredients — the mixture is not harmful by inhalation. The labeling comprises all potential hazards according to 67/548/EC, Annex VI. For the PBT and vPvB criteria of the REACH directive see section 12.

3 Composition/information on ingredients**3.2 Mixtures**

Dangerous component	CAS number	EC number	EINECS number	Index number	Registration number	Content
2-Methyl-2H-isothiazolin-3-one	2682-20-4	220-239-6	220-239-6	not known	not known	0.1 < 1%

Classification according to Regulation (EC) No 1272/2008:  Acute Tox. 3; H301, Acute Tox. 3; H311, Acute Tox. 2; H330,  Skin Corr. 1B; H314, Aquatic Acute 1; H400,  Skin Sens. 1; H317, STOT SE 3; H335.**Additional information:** For the full text of the H-Statements mentioned in this Section, see Section 16.**4 First aid measures****4.1 Description of first aid measures****General information:** Personal protection for the first aider.**In case of skin contact:** Immediately remove all contaminated clothing. Rinse skin with water / shower. Launder contaminated clothing before reuse.**In case of eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.**If swallowed:** Do NOT induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious). Drink plenty of water.**4.2 Most important symptoms and effects, both acute and delayed****Symptoms:** See Section 11 for more detailed information on health effects and symptoms.**Effects:** See Section 11 for more detailed information on health effects and symptoms.**4.3 Indication of any immediate medical attention and special treatment needed**

If exposed or concerned: Get medical attention. Treat symptomatically. No further information available.

5 Fire fighting measures**5.1 Extinguishing media**Suitable extinguishing media: Water, water spray, CO₂, dry chemical, or foam. Unsuitable extinguishing media: None known.**5.2 Special hazards arising from the substance or mixture**

Specific hazards during firefighting: In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide, soot, sulphur dioxide, nitrogen oxides.

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5.3 Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit).

Further information: Cool closed containers exposed to fire with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Recommended personal precautions: Use personal protective equipment. Keep people away from and upwind of spill/leak. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapour/spray. For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Clean up afterwards.

6.4 Reference to other sections

For handling and storage see section 7. For personal protection see section 8. Disposal consideration see section 13.

7 Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Keep container tightly closed. Handle and open container with care. Load carefully, avoid splashes. Launder clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: To maintain product quality, do not store in heat or direct sunlight. Keep container tightly closed. Advice on protection against fire and explosion: No special measures required.

Further information on storage conditions: Keep in a cool place, recommended storage temperature: 2—25°C / 35—77°F, max 40°C / 55°F.

7.3 Specific end uses

Specific use(s): No information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: Use only in well-ventilated areas. Do not use as an aerosol or for spraying. For further data see section 7.

8.1 Control parameters

Components with critical values that require monitoring at the workplace: None.

Additional information: Information valid at the time of review of safety data sheet.

8.2 Exposure controls

Engineering measures: Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection: Use respirator with appropriate filter if vapours or aerosol are released. Respirator with a gas filter. Combination filter: A2-B2-P3.

Hand protection: Recommended: Wear suitable gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Take note of the information given by the producer concerning permeability and break through times according to e.g. EN 374-3, and of special workplace conditions (mechanical strain, duration of contact). Protective gloves should be replaced at first signs of wear. Material: nitrile rubber, CE marking, class III.

Eye protection: Wear eye/face protection.

Skin and body protection: Recommended: Wear suitable protective clothing, gloves and eye/face protection.

Environmental exposure controls: Refer to section 6.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Liquid.

Colour: Clear nearly colourless.

Odour: Characteristic, faintly pungent.

Odour Threshold: No data available.

pH value: 3—5.

Melting point/range: Approx. 0°C, 32°F, deduced from the ingredients.

Boiling point/boiling range: Approx. 100°C, 212°F, deduced from the ingredients.

Flash point: > 100°C, 212°F, deduced from the ingredients.

Evaporation rate: No data available.

Flammability (solid, gas): Not applicable.
Upper explosion limit: Not applicable.
Lower explosion limit: Not applicable.
Vapour pressure: No data available.
Relative vapour density: No data available.
Density: Approx 1.00 g/cm³ (20°C, 69°F).
Water solubility: Completely miscible.
Partition coefficient: n-octanol/water: < 0, deduced from the ingredients.
Ignition temperature: No data available.
Thermal decomposition: No data available.
Viscosity: 1.3 mm²/s, (20°C, 69°F). Method: ASTM B 445.
Oxidizing properties: The mixture is non-oxidizing.

9.2 Other information

The above data are typical values and do not constitute a specification.

10 Stability and reactivity

10.1 Reactivity

Read carefully all information given in section 10.

10.2 Chemical stability

No decomposition if stored and applied as directed. Mind the expiry date.

10.3 Possibility of hazardous reactions

Can react with lyes and oxidizing substances.

10.4 Conditions to avoid

Avoid temperatures > 40°C, 104°F and direct sunlight.

10.5 Incompatible materials

Lyes and highly concentrated acids.

10.6 Hazardous decomposition products

No hazardous decomposition known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Oral: Acute toxicity estimate: >5,000 mg/kg (ATE, mix).

Acute toxicity: Dermal: Acute toxicity estimate: >2,000 mg/kg (ATE, mix).

Irritation to skin: Irritant (deduced from the ingredients).

Irritation to eyes: Strong irritant (deduced from the ingredients).

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): All ingredients are not rated as CMR substances. Therefore it was estimated that the mixture does not show any CMR effect.

Sensitisation: Sensitisation possible by skin contact (deduced from the ingredients).

12 Ecological information

12.1 Toxicity

Freshwater fish: The acute LC50 (96 h, rainbow trout) is >100 mg/l (calculated from the ingredients).

Freshwater invertebrates: The acute EC50 (48 h, daphnia) is >100 mg/l (calculated from the ingredients).

12.2 Persistence and degradability

Degree of elimination: Degree of elimination: All ingredients will be readily eliminated.

Biodegradability: Degree of biodegradability: All ingredients are readily biodegradable.

12.3 Bioaccumulative potential

Log Pow: <0, low potential to bioaccumulate.

The formulation contains the following heavy metals and compounds according to EC guideline No. 76/464 EC: None.

12.4 Mobility in soil

For the mobility in soil are no data available.

12.5 Results of PBT and vPvB assessment

The mixture does not contain any substance which matches the PBT and vPvB criteria of the REACH directive according to Annex XIII.

Other adverse effects

Not known.

13 Disposal considerations

13.1 Waste treatment methods

Product: Disposal according to local or national regulations. **European Waste Catalogue Number:** No waste code according to the European Waste

Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer. **Contaminated packaging:** Dispose of packaging or containers in accordance with local, regional and national regulations. Recommendation: Empty remaining contents, flush thoroughly with water before recycling.

14 Transport information

Non-dangerous product according to ADR, IMDG, IATA-DGR.

15 Regulatory information

15.1 Safety, health and environmental regulation/registration specific for the substance or mixture

Designation according to EC guidelines: The product has been classified and labelled in accordance with EU Directives, see section 2. **EU:** All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC. **Indication of VOC according to Directive 1999/13 EC:** The mixture contains volatile organic compounds VOC = <0.1%. **Water contaminating class (Germany):** WGK 1, water endangering (self-assessment according to the Water Hazardous Directive, VwVwS, dated 1999-5-17).

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

16 Other Information

H-Statements relevant to the product's hazardous ingredients, listed in section 3: H301 Fatal if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H330 Fatal if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life.

Training hints: Further information under the regulations of use can be taken from the technical data sheet.

Contact for technical information: Email: ti@imunell.de, telephone number: +49 151 688 577 19.

Disclaimer: This data is based on our present knowledge. However only safety requirements are characterized and for that this safety data sheet is limited. The data given in this sheet are not a specification of the product. No warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.
