



## SAFETY DATA SHEET/ SDS Bailenger Solution

### 1 – IDENTIFICATION OF THE SUBSTANCE/ COMPANY

Name/item number	Bailenger
Emergency number	06131-19240 or 232466 (toxic central Mainz)
Company	BioRépair GmbH Kirchenstr. 5 74889 Sinsheim

### 2 – INGREDIENTS - INFORMATION

Chem. Name	EC-Nr.	CAS-Nr.	weight percent	Classification (67/548)	Classification (VO (EG 1272/2008))
Sodium Azid 	247-852-1	26628-22-8	0.05	T+; N; R28-32-50/53 S(1/2)-28-45-60-61 EUH032	H300 H410
Sodium Acetate Trihydrate	612-115-9	6131-90-4	1.5	-	-
Acetic Acid 	200-580-7 616-485-2	64-19-7	0.4	C; R35 S(1/2)-23-26-45	H314
Dest. water	231-791-2	7732-18-5	To complete 100	-	-

#### Identification

### 3 – HAZARD IDENTIFICATION FOR BAILENGER Solution

#### Hazard statements:

H302  
H317  
H319  
H413

#### Safety instructions:

P102  
P202  
P262  
P270  
P285  
P405  
P412  
P302+352

### 4 – FIRST AID MEASURES

#### Breathing

Keep away from vapors and breathe fresh air. In the event of suffocation begin artificial respiration and seek medical attention

#### Skin contact

Remove contaminated clothing and wash immediately with plenty of soap and water. If significant or extended contact seek medical advice

#### Eye contact

Rinse immediately with water or a 0.9% sodium chloride solution; ensure the efficient flushing by opening the eyelids with fingers

#### Swallowing

Immediately rinse the mouth with plenty of water and seek medical advice

### 5 – FIRE-FIGHTING MEASURES

- Non-flammable
- Measures to protect rescuers
  - Wear protective clothing to avoid any contact with the skin and eyes
  - To protect against smoke a self-contained breathing apparatus must be worn

## 6 – ACCIDENTAL RELEASE MEASURES

- VI.I Personal precautions, protective equipment and emergency procedures**
- Ensure adequate ventilation
  - Further information on ecology in section 12
- VI.II Environmental precautions**
- No special environmental precautions are required
- VI.III Methods and materials for containment and cleaning**
- Absorb with earth, sand or other non-combustible materials and fill it into containers for later disposal

## 7 – HANDLING AND STORAGE

- at +5 - +25°C
- Store in supplied packaging and a dry environment
- Ensure adequate ventilation
- Do not breath vapors or mist
- Avoid contact with skin and eyes

## 8 – EXPOSURE CONTROLL/ INDIVIDUAL PROTECTION MEASURES

- Safety regulations when handling chemicals should be observed
- Wear protective gloves
- Wear goggles
- Wear protective clothing
- Recommended handling: under deduction
- Wash hands after handling the solution
- Do not eat or drink at work

## 9 – PHYSICAL AND CHEMICAL PROPERTIES

physical properties	liquid
color	colorless
odor	characteristic
pH value	pH 5 - 6
boiling point/-range	100°C / 212°F
flash point	> 105°C / > 221°F
Solubility	miscible with water in all proportions

## 10 – STABILITY AND REACTIVITY

Stability	stable under recommended conditions
Incompatibility with	strong oxidizers
Avoid	extreme temperatures and direct sunlight
Incompatible materials	strong bases oxidant

### Hazardous decomposition products

Thermal decomposition	under normal conditions – none under heat – production of ethanol and toxic fumes
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## 11 – TOXICOLOGICAL INFORMATION

### Acute toxicity

Product information	This product is, following the known or available information, not an acute toxic
Inhalation	Sore throat. Cough. Burning sensation. Headache. Dizziness. Shortness of breath. Labored breathing
Eye contact	Redness. Pain. Severe burns. Loss of vision.
Skin contact	Pain. Redness. Skin burns. Blisters.
Ingestion	Sore throat. Burning sensation. Abdominal pain. Vomiting. Shock or collapse.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Azid	27 mg/kg (Rat)	20 mg/kg (Rabbit)	-
Sodium Acetate Trihydrate	-	-	-
Acetic Acid	5.53 g/kg (Rat)	1060 mg/kg (Rabbit)	11.4 mg/L 4 h (Rat)

Corrosion/irritation to the skin	May cause an allergic skin reaction
Eye damage/irritation	May cause irritation or damage of the eye
Sensitization	May cause an allergic skin reaction
Germ cell mutagenicity	Suspected of causing genetic defects
Carcinogenicity	May cause cancer

## Further information

Other hazardous properties can not be excluded. The product should be handled with the same caution as is the case with other chemicals

## 12 – ECOLOGICAL INFORMATION

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Sodium Azid	-	LC50 rainbow trout 0.8-1.6 mg/L 96 h @ 13 °C, WT 1.4 g /technical material, 98% LC50 bluegill 0.8 mg/L 96 h @ 18 °C, WT 0.4 g /technical material, 98%	EC50 daphnia pulex 4.2 mg/L 96 h @ 15 °C (95% confidence limit 2.8-6.2 mg/L), first instar/technical material, 98%/
Sodium Acetate Trihydrate	-	-	-
Acetic Acid	EC50; Species: Chlorococcales (Green Algae Order); Conditions: freshwater, static; Concentration: 156000 ug/L for 24 hr; Effect: physiology, assimilation efficiency /formulation/	LC50; Species: Crangon septemspinosa (Bay Shrimp, Sand Shrimp) weight 0.003 g; Conditions: saltwater, renewal, 15 deg C, pH 3.64-8.07; Concentration: 116000 ug/L for 14 days (95% confidence interval: 85900-157000 ug/L) /99.7% purity/ LC50; Species: Crangon septemspinosa (Bay Shrimp, Sand Shrimp) weight 0.003 g; Conditions: saltwater, static, 15 deg C, pH 2.26-7.96; Concentration: 158000 ug/L for 96 hr (95% confidence interval: 50000-500000 ug/L) /99.7% purity/	EC50; Species: Daphnia magna (Water flea); Conditions: static bioassay, neutralized to pH 8.0 and 20 °C; Concentration: 6,000 mg/L for 24 hr; Effect: immobilization LC50; Species: Daphnia magna (Water flea); Conditions: freshwater, static, 21-25 °C; Concentration: 47000 ug/L for 24 hr /formulation/

## 12.3 BIOACCUMULATION POTENTIAL

No data available

Chemische Bezeichnung	log Kow
Sodium Azid	-
Sodium Acetate Trihydrate	-
Acetic Acid	-0.17

## 13 – WASTE DISPOSAL

Dispose of waste from residues/ unused products	dispose in accordance with local regulations
contaminated packaging	for recycling or disposal carry empty containers to an approved waste disposal plant

## 14 – TRANSPORT

- In closed packaging
- No special precautions necessary

## 15 – REGULATORY INFORMATION

- Harmful
  - Substances which can cause dangers of a limited severity by inhalation, ingestion or skin penetration

## 16 – FURTHER INFORMATION

### Full text of H-phrases

H302 – Harmful if swallowed  
H317 – May cause an allergic skin reaction  
H319 – Causes serious eye damage  
H413 – May cause long-lasting harmful effects to aquatic life

### Full text of P-phrases

P102 – Keep out of reach of children  
P202 – Do not handle until all safety precautions have been read and understood  
P262 – Do not get in eyes, on skin, or on clothing  
P270 – Do not eat, drink or smoke when using this product  
P405 – Store locked up  
P412 – Do not expose to temperatures exceeding 50 °C/122 °F  
P302+352 – IF ON SKIN: wash with plenty of water and soap

- ACGIH
  - American Conference of Governmental and Industrial Hygienists
- MAK
  - Maximal erlaubte Konzentration in der Luft am Arbeitsplatz (Deutsche Verordnung)
- TLV-CL
  - Grenzwert (threshold limit value)