



Trade name: Mara® Ban CS

Version: 1 /

Date revised: 23.06.2020

Substance number: 360261560

Replaces Version: - / WORLD

Print date: 23.06.20

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

### **1.1. Product identifier**

Mara® Ban CS

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

#### **Use of the substance/preparation**

Anti-microbial additive

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

#### **Address/Manufacturer**

Marabu GmbH & Co. KG  
Asperger Strasse 4  
71732 Tamm  
Germany  
Telephone no. +49-7141/691-0  
Fax no. +49-7141/691-147  
Information provided by / telephone Department product safety  
E-mail address of person responsible PRSI@marabu.com  
for this SDS

### **1.4. Emergency telephone number**

(+49) (0)621-60-43333

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

#### **Supplemental information**

EUH210 Safety data sheet available on request.

### **2.3. Other hazards**

No special hazards have to be mentioned.

## **SECTION 3: Composition/information on ingredients**

### **3.2. Mixtures**

#### **Chemical characterization**

Auxiliary based on water

#### **Hazardous ingredients**

##### **Silver phosphate glass**

CAS No.	308069-39-8				
EINECS no.	608-534-1				
Concentration	>=	1	<	10	%

Classification (Regulation (EC) No. 1272/2008)  
Eye Irrit. 2 H319



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## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

#### **After inhalation**

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

#### **After skin contact**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

#### **After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

#### **After ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

Until now no symptoms known so far.

### **4.3. Indication of any immediate medical attention and special treatment needed**

#### **Hints for the physician / treatment**

Treat symptomatically

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray/mist, Not be used for safety reasons: 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); Carbon dioxide (CO<sub>2</sub>); dense black smoke; Metal oxide dust; Silicon dioxide

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

### **6.2. Environmental precautions**

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

### **6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite,



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diatomaceous earth and place in container for disposal according to local regulations (see section 13).  
Clean preferably with a detergent - avoid use of solvents.

#### 6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Smoking, eating and drinking shall be prohibited in application area. For personal protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Store in accordance with national regulation

#### Hints on storage assembly

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

#### Further information on storage conditions

Store between 15 and 30 °C in a dry, well ventilated place. Keep container tightly closed. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 7.3. Specific end use(s)

Anti-microbial additive

## SECTION 8: Exposure controls/personal protection

### 8.2. Exposure controls

#### Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

#### Respiratory protection

Not necessary.

#### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness	>	0,5	mm
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Breakthrough time	<	30	min
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The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

#### Eye protection

Use safety eyewear designed to protect against splash of liquids.



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**Body protection**

Not applicable.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

**Form** liquid  
**Colour** colourless  
**Odour** mild

**Odour threshold**

Remarks No data available

**pH value**

Remarks not determined

**Melting point**

Remarks not determined

**Freezing point**

Remarks not determined

**Initial boiling point and boiling range**

Value appr. 100 °C  
 Pressure 1.013 hPa  
 Source Literature value

**Flash point**

Value > 100 °C  
 Method ASTM D 6450 (CCCFP)

**Evaporation rate (ether = 1) :**

Remarks not determined

**Flammability (solid, gas)**

Not applicable

**Upper/lower flammability or explosive limits**

Remarks not determined

**Vapour pressure**

Remarks not determined

**Vapour density**

Remarks not determined

**Density**

Remarks not determined

**Solubility in water**

Remarks miscible

**Partition coefficient: n-octanol/water**

Remarks Not applicable

**Ignition temperature**

Remarks not determined

**Viscosity**

**dynamic**  
 Value appr. 3 mPa.s  
 Temperature 20 °C

**Explosive properties**



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evaluation

no

**Oxidising properties**

evaluation

None known

**9.2. Other information****Other information**

The physical specifications are approximate values and refer to the used safety relevant component(s).

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

Stable under recommended storage and handling conditions (see section 7).

**10.3. Possibility of hazardous reactions**

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**10.4. Conditions to avoid**

When exposed to high temperatures may produce hazardous decomposition products.

**10.5. Incompatible materials**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.6. Hazardous decomposition products**

See chapter 5.2 (Firefighting measures - Special hazards arising from the substance or mixture).

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

Remarks

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

**Acute dermal toxicity**

Remarks

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

**Acute inhalational toxicity**

Remarks

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

**Skin corrosion/irritation**

Remarks

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

**Serious eye damage/irritation**

Remarks

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

**Sensitization**

Remarks

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

**Mutagenicity**

Remarks

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

**Reproductive toxicity**

Remarks

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

**Carcinogenicity**

Remarks

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

**Specific Target Organ Toxicity (STOT)**

Single exposure



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

**Repeated exposure**

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

**Aspiration hazard**

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

**Experience in practice**

The liquid splashed in the eyes may cause irritation and reversible damage. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

**Other information**

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and classified for toxicological hazards accordingly.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

**General information**

There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

### **12.2. Persistence and degradability**

**General information**

There are no data available on the mixture itself.

### **12.3. Bioaccumulative potential**

**General information**

There are no data available on the mixture itself.

**Partition coefficient: n-octanol/water**

Remarks Not applicable

### **12.4. Mobility in soil**

**General information**

There are no data available on the mixture itself.

### **12.5. Results of PBT and vPvB assessment**

**General information**

There are no data available on the mixture itself.

### **12.6. Other adverse effects**

**General information**

There are no data available on the mixture itself.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

**Disposal recommendations for the product**

For further information contact your local waste authority.

**Disposal recommendations for packaging**

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.



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Empty containers must be scrapped or reconditioned.  
Not emptied containers are hazardous waste (waste code number 150110).

**SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
<b>14.1. UN number</b>	The product does not constitute a hazardous substance in land transport.-	The product does not constitute a hazardous substance in sea transport.-	The product does not constitute a hazardous substance in air transport.-
<b>14.2. UN proper shipping name</b>	-	-	-
<b>14.3. Transport hazard class(es)</b>	-	-	-
Subsidiary risk		-	-
Label			
<b>14.4. Packing group</b>	-	-	-
Transport category	0		
<b>14.5. Environmental hazards</b>	-	no	-

**Information for all modes of transport****14.6. Special precautions for user**

Transport within the user's premises:  
Always transport in closed containers that are upright and secure.  
Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Other information****14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

no

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

The product does not contain substances of very high concern (SVHC).

**15.2. Chemical safety assessment**

For this preparation a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

H319 Causes serious eye irritation.

**CLP categories listed in Chapter 3**

Eye Irrit. 2 Eye irritation, Category 2



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### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.