

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 28.01.2009

Revision: 18.08.2008

1 Identification of substance

- **Product details**
- **Trade name** **BFA**
- **Article number:** 0673
- **Application of the substance / the preparation**
Biocide
Impregnation
Cleaning agent/ Cleaner
- **Manufacturer/Supplier:**
Remmers Baustofftechnik GmbH
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D-49624 Lönningen / Germany
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- **Informing department:**
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after working hours: Tel.: +49 (0)171/6428-297

2 Hazards identification

- **Hazard designation:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**
Use biocides safely. Always read the label and product information before use.
R 36/38 Irritating to eyes and skin.
R 43 May cause sensitisation by skin contact.
- **Classification system**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Aqueous solution of isothiazolinon compounds

- **Dangerous components:**

CAS: 68424-85-1 EINECS: 270-325-2	Alkyl dimethyl benzyl ammonium chloride	C, Xn, N; R 22-34-50	≤1.0%
CAS: 2634-33-5 EINECS: 220-120-9	1,2-benzisothiazol-3(2H)-one	Xn, Xi, N; R 22-38-41-43-50	≤0.1%
CAS: 2682-20-4 EINECS: 220-239-6	2-methyl-2H-isothiazol-3-one	T, C; R 24/25-34-43	≤0.1%

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- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information** Immediately remove any clothing soiled by the product.
- **After inhalation**
Supply fresh air.
Seek medical treatment in case of complaints.
- **After skin contact**
Wash immediately with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
- **Information for doctor**
- **The following symptoms may occur:** Allergic reactions

5 Fire fighting measures

- **Suitable extinguishing agents**
Use fire fighting measures that suit the environment.
Water mist
Foam
Carbon dioxide
Fire-extinguishing powder
- **Special hazards caused by the material, its products of combustion or flue gases:**
May be released in case of fire
Sulphur dioxide (SO₂)
Nitrogen oxides (NO_x)
Nitrous gases
- **Protective equipment:** Wear self-contained breathing apparatus.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Measures for environmental protection:**
Do not allow product to reach sewage system or water bodies.
Do not allow to enter the ground/soil.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.
Ensure adequate ventilation.
- **Additional information:** See Section 13 for information on disposal.

7 Handling and storage

- **Handling**
- **Information for safe handling:** Use only in well ventilated areas.
- **Information about protection against explosions and fires:** The product is not flammable
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.

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- **Information on storage in a common storage facility:** none
- **Further information about storage conditions:**
Keep container tightly closed.
Protect from frost.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with limit values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during compilation were used as a basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Do not eat, drink or smoke while working.
Keep away from food, beverages and animal feed.
Immediately remove soiled, saturated clothing.
Use skin protection cream for preventive skin protection.
Wash hands before pauses and after work.
Avoid contact with eyes and skin.
Do not inhale gases / vapours / aerosols.
- **Respiratory equipment:**
In case of insufficient ventilation/or spraying procedures: Respiratory equipment with particle filter P 2
- **Protection of hands:** Impervious gloves
- **Material of gloves:** Nitrile rubber, NBR
- **Penetration time of glove material**
Break through time: max. 240 min (DIN EN 374).
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Not suitable are gloves made of the following materials:** Leather gloves
- **Eye protection:** Safety glasses

9 Physical and chemical properties:

· General Information

Form:	Fluid
Colour:	Yellowish
Odour:	Odourless

· Change in condition

Boiling point/Boiling range: 100°C

· **Flash point:** Not applicable

· **Ignition temperature:** not applicable

· **Self-inflammability:** Product is not self-igniting.

· **Danger of explosion:** Product is not explosive.

· **Density at 20°C** ca. 1 g/cm³

· Solubility in / Miscibility with

Water: Fully miscible

· **pH-value at 20°C:** 6.0 +/- 0.5

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- **Viscosity:**
dynamic at 20°C: ca. 120 mPas

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous decomposition products:**
Sulphur dioxide
Nitrogen oxides (NOx)
Nitrous vitriol gases
in case of fire.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritating effect.
- **on the eye:** Irritating effect.
- **Sensitisation:** Sensitisation possible by skin contact.
- **Additional toxicological information:**
The product shows the following dangers based on the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant
When used and handled according to directions, the product does not have any harmful effects according to our experience and the information available.
- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information:

- **Information on elimination (persistence and degradability):**
- **Other information:** The product is biodegradable.
- **General notes:**
Water hazard class 1 : slightly hazardous to water.
Do not allow product to reach ground water, bodies of water or sewage system.

13 Notes on disposal:

- **Product:**
- **Recommendation**
Do not dispose of together with household garbage. Do not allow product to reach sewage system.
Must be specially treated in compliance with official regulations.
The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

· European waste catalogue

20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 29	detergents containing dangerous substances

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- **Uncleaned packaging:**
- **Recommendation:**
Only completely empty containers may be recycled.
Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
- **ADR/RID-GGVS/E Class:** -

- **Maritime transport IMDG/GGVSea:**
- **IMDG/GGVSea Class:** -

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not a hazardous good according to the above regulations.

15 Regulatory information

- **Designation according to EC guidelines:**
The product has been classified and labelled in accordance with EC Guidelines / relevant national laws.

- **Code letter and hazard designation of product:**



Xi Irritant

- **Hazard-determining components of labelling:**

1,2-benzisothiazol-3(2H)-one
2-methyl-2H-isothiazol-3-one

- **Risk phrases:**

36/38 Irritating to eyes and skin.
43 May cause sensitisation by skin contact.

- **Safety phrases:**

1/2 Keep locked up and out of the reach of children.
24 Avoid contact with skin.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of soap and water.
29 Do not empty into drains.
37/39 Wear suitable gloves and eye/face protection.
46 If swallowed, seek medical advice immediately and show this container or label.

- **National regulations**

- **Water hazard class:**

Water hazard class 1: slightly hazardous to water.
according to appendix 4 VwVwS

- **Other regulations, limitations and prohibition ordinances**

Possibility of sensitisation by skin contact.
Observe the usual protective measures when working and for storage.

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16 Other information:

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship. Delivery specifications are found in the respective Technical Information Sheets.

· **Relevant R-phrases**

- 22 Harmful if swallowed.
- 24/25 Toxic in contact with skin and if swallowed.
- 34 Causes burns.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitisation by skin contact.
- 50 Very toxic to aquatic organisms.

· **Department issuing data specification sheet:** Product Safety department

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