

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 11.09.2023

Version number 3 (replaces version 2)

Revision: 11.09.2023

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

#### 1.1 Product identifier

- Trade name: **Natura Impregnator**
- Article number: 12045, 12046
- UFI: 32M2-AQC8-531M-P7NY

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

No further relevant information available.

#### Application of the substance / the mixture

Protective impregnation

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

- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH  
Lechstrasse 28  
D 90451 Nürnberg
- Tel. +49(0)911-642960  
Fax. +49(0)911-644456  
e-mail info@akemi.de

#### Further information obtainable from:

Laboratory

#### 1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH  
Tel. +49(0)911-64296-59  
Reachable during the following office hours:  
Monday – Thursday from 07:30 a.m. to 16:30 p.m.  
Friday from 07:30 a.m. to 13:30 p.m.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008  
Skin Sens. 1 H317 May cause an allergic skin reaction.

#### 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS07

#### Signal word

Warning

#### Hazard-determining components of labelling:

2-methyl-2H-isothiazol-3-one

#### Hazard statements

H317 May cause an allergic skin reaction.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P261 Avoid breathing mist/vapours/spray.  
P280 Wear protective gloves.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Additional information:

Contains biocidal products: reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

#### 2.3 Other hazards

##### Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

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· Determination of endocrine-disrupting properties

For information on endocrine disrupting properties see section 11.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**· Description:

Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 112-02-7 EINECS: 203-928-6 Reg.nr.: 01-2119970558-23	cetrimonium chloride Acute Tox. 3, H311 Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Chronic 1, H410 Acute Tox. 4, H302	<1%
CAS: 52-51-7 EINECS: 200-143-0 Index number: 603-085-00-8	bronopol (INN) Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335	<1%
CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9 Reg.nr.: 01-2120764690-50	2-methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330 Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) Skin Sens. 1A, H317; STOT SE 3, H335 EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	<1%

· Additional information:

For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**· General information:

No special measures required.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Generally the product does not irritate the skin.

· After eye contact:

If skin irritation continues, consult a doctor.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**· Suitable extinguishing agents:CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

**5.3 Advice for firefighters**· Protective equipment:

No special measures required.

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**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections** See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from frost.
- **Storage class:** 12
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

## · DNELs

**112-02-7 cetrimonium chloride**

Dermal	DNEL ( Langzeit-wiederholt)	4.7 mg/kg bw/day (ARB) 2.83 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	3.32 mg/m <sup>3</sup> Air (ARB) 0.98 mg/m <sup>3</sup> Air (BEV)

## · PNECs

**112-02-7 cetrimonium chloride**

PNEC (wässrig)	0.4 mg/l (KA) 0.000068 mg/l (MW)
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PNEC (fest)	0.00068 mg/l (SW)
	0.0008 mg/l (WAS)
	7 mg/kg Trockengew (BO)
	0.927 mg/kg Trockengew (MWS)
	9.27 mg/kg Trockengew (SWS)

- Additional information: The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.
- Respiratory protection: Not required.
- Hand protection The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR
- As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
- Not suitable are gloves made of the following materials: Leather gloves  
Strong material gloves
- Eye/face protection Goggles recommended during refilling

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- General Information
- Colour: White
- Odour: Odourless
- Odour threshold: Not determined.
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range 100 °C
- Flammability Not applicable.
- Lower and upper explosion limit
- Lower: Not determined.
- Upper: Not determined.
- Flash point: Not applicable.
- Decomposition temperature: Not determined.
- pH at 20 °C 7.5

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· <u>Viscosity:</u>	
· <u>Kinematic viscosity at 20 °C</u>	0 s (DIN 53211/4)
· <u>Dynamic:</u>	Not determined.
· <u>Solubility</u>	
· <u>water:</u>	Fully miscible.
· <u>Partition coefficient n-octanol/water (log value)</u>	Not determined.
· <u>Vapour pressure at 20 °C:</u>	23 hPa
· <u>Density and/or relative density</u>	
· <u>Density at 20 °C:</u>	1 g/cm <sup>3</sup>
· <u>Relative density</u>	Not determined.
· <u>Vapour density</u>	Not determined.

**· 9.2 Other information**

· <u>Appearance:</u>	
· <u>Form:</u>	Fluid
· <u>Important information on protection of health and environment, and on safety.</u>	
· <u>Ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Product does not present an explosion hazard.
· <u>Solvent content:</u>	
· <u>Water:</u>	86.6 %
· <u>Change in condition</u>	
· <u>Evaporation rate</u>	Not determined.

· <u>Information with regard to physical hazard classes</u>	
· <u>Explosives</u>	Void
· <u>Flammable gases</u>	Void
· <u>Aerosols</u>	Void
· <u>Oxidising gases</u>	Void
· <u>Gases under pressure</u>	Void
· <u>Flammable liquids</u>	Void
· <u>Flammable solids</u>	Void
· <u>Self-reactive substances and mixtures</u>	Void
· <u>Pyrophoric liquids</u>	Void
· <u>Pyrophoric solids</u>	Void
· <u>Self-heating substances and mixtures</u>	Void
· <u>Substances and mixtures, which emit flammable gases in contact with water</u>	Void
· <u>Oxidising liquids</u>	Void
· <u>Oxidising solids</u>	Void
· <u>Organic peroxides</u>	Void
· <u>Corrosive to metals</u>	Void
· <u>Desensitised explosives</u>	Void

**SECTION 10: Stability and reactivity**

· <b>10.1 Reactivity</b>	No further relevant information available.
· <b>10.2 Chemical stability</b>	
· <u>Thermal decomposition / conditions to be avoided:</u>	No decomposition if used according to specifications.
· <b>10.3 Possibility of hazardous reactions</b>	No dangerous reactions known.
· <b>10.4 Conditions to avoid</b>	No further relevant information available.
· <b>10.5 Incompatible materials:</b>	No further relevant information available.

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· **10.6 Hazardous decomposition products:**

No dangerous decomposition products known.

**SECTION 11: Toxicological information**

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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

· LD/LC50 values relevant for classification:

**ATE (Acute Toxicity Estimates)**

Dermal	LD50	400,303 mg/kg (rabbit)
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**112-02-7 cetrimonium chloride**

Oral	LD50	699 mg/kg (rat)
Dermal	LD50	528 mg/kg (rabbit)

**52-51-7 bronopol (INN)**

Oral	LD50	250 mg/kg (canis)
		270 mg/kg (mouse)
		180 mg/kg (rat)
Dermal	LD50	4,750 mg/kg (mouse)
		1,600 mg/kg (rat)

**2682-20-4 2-methyl-2H-isothiazol-3-one**

Oral	LD50	120 mg/kg (rat)
Dermal	LD50	242 mg/kg (rat)
Inhalative	LC50/4 h	0.11 mg/l (rat)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**

· Endocrine disrupting properties

None of the ingredients is listed.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· Aquatic toxicity:

**112-02-7 cetrimonium chloride**

EC50/48h	0.09 mg/l (daphnia magna)
EC50/16h	0.96 mg/l (pseudomonas putida)
NOELR/21d	0.00068 mg/l (daphnia magna)
NOELR/28d	0.00322 mg/l (pimephales promelas)
EC10	0.047 mg/l (Pseudokirchneriella subcapitata)
EC50/72h	0.05 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	0.19 mg/l (Danio rerio.)

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**52-51-7 bronopol (INN)**

EC50/48h	1.4 mg/l (daphnia magna)
EC50/72h	0.4-2.8 mg/l (algae)
LC50/96h	41.2 mg/l (Oncorhynchus mykiss)

**2682-20-4 2-methyl-2H-isothiazol-3-one**

EC50	34.6 mg/l (BES) (DIN 38412-3)
EC50/48h	0.93-1.9 mg/l (daphnia magna)
ErC50/72h	0.1 mg/l (Skeletonema costatum ( Kieselalge))
EC50/16h	2.3 mg/l (pseudomonas putida)
EC20/3h	2.8 mg/l (BES) (DIN 38412-3)
NOEC/21d	0.04 mg/l (daphnia magna)
EC50/72h	0.157 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	4.77-6 mg/l (trout)

- **12.2 Persistence and degradability**

No further relevant information available.

- **12.3 Bioaccumulative potential**

No further relevant information available.

- **12.4 Mobility in soil**

No further relevant information available.

- **12.5 Results of PBT and vPvB assessment**

- PBT:

Not applicable.

- vPvB:

Not applicable.

- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects**

- Additional ecological information:

- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**

- Recommendation

Smaller quantities can be disposed of with household waste.

- Uncleaned packaging:

- Recommendation:

Disposal must be made according to official regulations.

- Recommended cleansing agents:

Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

- **14.1 UN number or ID number**

- ADR, ADN, IMDG, IATA

Void

- **14.2 UN proper shipping name**

- ADR, ADN, IMDG, IATA

Void

- **14.3 Transport hazard class(es)**

- ADR, ADN, IMDG, IATA

- Class

Void

- **14.4 Packing group**

- ADR, IMDG, IATA

Void

- **14.5 Environmental hazards:**

- Marine pollutant:

No

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- |   |  |
|---|--|
| <b>· 14.6 Special precautions for user</b>                            | Not applicable.                                      |
| <b>· 14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable.                                      |
| <b>· Transport/Additional information:</b>                            | Not dangerous according to the above specifications. |
| <b>· UN "Model Regulation":</b>                                       | Void   |

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

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

<b>· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II</b>
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None of the ingredients is listed.

<b>· REGULATION (EU) 2019/1148</b>
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<b>· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</b>
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None of the ingredients is listed.

<b>· Annex II - REPORTABLE EXPLOSIVES PRECURSORS</b>
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None of the ingredients is listed.

<b>· Regulation (EC) No 273/2004 on drug precursors</b>
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None of the ingredients is listed.

<b>· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors</b>
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None of the ingredients is listed.

- National regulations:

- Information about limitation of use: Employment restrictions concerning juveniles must be observed.

- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

<b>· Substances of very high concern (SVHC) according to REACH, Article 57</b>
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None of the ingredients is listed.

<b>· VOC EU</b>	0.0 g/l
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- **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

- Department issuing SDS: Laboratory
- Date of previous version: 12.12.2022
- Version number of previous version: 2

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#### Abbreviations and acronyms:

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ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 SVHC: Substances of Very High Concern  
 vPvB: very Persistent and very Bioaccumulative  
 Acute Tox. 4: Acute toxicity – Category 4  
 Acute Tox. 3: Acute toxicity – Category 3  
 Acute Tox. 2: Acute toxicity – Category 2  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Skin Sens. 1A: Skin sensitisation – Category 1A  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2