

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

### .1.1 Product identifier

- . Trade name: ECOGARD BIO-PLUS
- . Article number: 1005233

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

- . Application of the substance / the mixture: [Flame retardant](#)

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

- . Manufacturer/Supplier:

TÜCHLER Bühnen- & Textiltechnik GmbH  
Rennbahnweg 78  
A-1220 Wien

Tel.: +43 (0)1 400 10

Fax.: +43 (0)1 400 10 20

- . Emergency information:

Poisons Information Centre Austria: +43 (0)1 406 43 43

Product Safety Department Tel.: +43 (0)1 400 10 33 - [safety@tuechler.net](mailto:safety@tuechler.net)

## SECTION 2: Hazards identification

### .2.1 Classification of the substance or mixture

- . Classification according to Regulation (EC) No. 1272/2008  
[The product is not classified according to the CLP regulation.](#)

### .2.2 Label elements

- . Labelling according to Regulation (EC) No. 1272/2008 [void](#)
- . Hazard pictograms: [void](#)
- . Signal word: [void](#)
- . Hazard statements: [void](#)
- . Additional information:  
[Safety data sheet available on request.](#)

### .2.3 Other hazards

- . Results of PBT- and vPvB assessment
- . PBT: [Not applicable.](#)
- . vPvB: [Not applicable.](#)

## SECTION 3: Composition /information on ingredients

### .3.2 Chemical characterisation: mixtures

- . Description:  
[Aqueous solution of compounds containing nitrogen and phosphorus.](#)
- . Dangerous components: [void](#)

## SECTION 4: First aid measures

### .4.1 Description of first aid measures

- . General information: No special measures required.
- . After inhalation: Seek medical treatment in case of complaints.
- . After skin contact: Instantly wash with water and soap and rinse thoroughly.
- . After eye contact:  
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- . After swallowing:  
Rinse out mouth and then drink plenty of water.  
In case of persistent symptoms 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:  
Use fire fighting measures that suit the environment.

### .5.2 Special hazards arising from the substance or mixture

No further relevant information available.

### .5.3 Advice for firefighters

- . Protective equipment: Wear self-contained breathing apparatus.
- . Additional information: The product is not combustible.

## SECTION 6: Accidental release measures

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

Wear protective clothing.

### .6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

### .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:

No dangerous materials are released.

## SECTION 7: Handling and storage

### .7.1 Precautions for safe handling:

- . No special measures required.
- . Information about protection against explosions and fires:  
No special measures required.

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

- . Requirements to be met by storerooms and containers:  
No special requirements.
- . Information about storage in one common storage facility: Not required.

- . Further information about storage conditions:

None.

Do not store above 40 °C.

- .7.3 Specific end use(s): No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- .8.1 Control parameters:

- . Components with critical 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.

- .8.2 Exposure controls:

- . Personal protective equipment:

- . General protective and hygienic measures:

The usual precautionary measures should be adhered to in handling the chemicals.

- . Breathing equipment: Not required.

- . Protection of hands: Protective gloves.

- . Material of gloves: Nitrile rubber, NBR

- . Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- . Eye protection: Safety glasses.

- . Body protection: Protective work clothing.

## SECTION 9: Physical and chemical properties

- .9.1 Information on basic physical and chemical properties

- . General Information:

- . Appearance:

. Form:	liquid
. Colour:	colourless
. Smell:	characteristic

- . pH-value at 20 °C: 7,0 ± 0,5

- . Change in condition:

. Melting point/Melting range:	not determined
. Boiling point/Boiling range:	100 °C (H <sub>2</sub> O)

- . Flash point: not applicable

- . Self-flammability: Product is not self-ignitable.

- . Danger of explosion: Product is not explosive.

- . Density at 20 °C: 1,2 ± 0,1 g/cm<sup>3</sup>

- . Solubility in / Miscibility with water : soluble

- . 9.2 Other Information: No further relevant information available.

## SECTION 10: Stability and reactivity

- .10.1 Reactivity: No further relevant information available.
- .10.2 Chemical stability:
  - . Conditions to be avoided:
    - No decomposition if used according to specifications.
- .10.3 Possibility of hazardous reactions: Contact with alkali releases irritant gases.
- .10.4 Conditions to avoid: No further relevant information available.
- .10.5 Incompatible materials: No further relevant information available.
- .10.6 Hazardous decomposition products: None.

## SECTION 11: Toxicological information

- .11.1 Information on toxicological effects:
  - . Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:

Oral	LD 50	> 2000 mg/kg (rat)
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- . Remark:
  - The product has not been tested. This information is based upon the properties of the individual components.
- . Primary irritant effect:
  - . 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: Based on available data, the classification criteria are not met.
  - . CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
    - . 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.

## SECTION 12: Ecological information

- .12.1 Toxicity:
  - . Aquatic toxicity: No further relevant information available.
- .12.2 Persistence and degradability: No further relevant information available.
- . Degree of elimination: >90% (OECD 302 B, 28 d)
- .12.3 Bioaccumulative potential: No further relevant information available
- .12.4 Mobility in soil: No further relevant information available.
- . Additional ecological information:
  - . AOX-indication: The product does not contain organically bounded halogens (AOX-free)
  - . General notes: Do not allow product to reach ground water or water bodies.

- .12.5 Results of PBT- und vPvB assessment:
- . PBT: [Not applicable.](#)
  - . vPvB: [Not applicable.](#)
- .12.6 Other adverse effects: [No further relevant information available.](#)

### SECTION 13: Disposal considerations

- .13.1 Waste treatment methods:
- . Recommendation: [Must be specially treated under adherence to official regulations.](#)
  - . Uncleaned packagings:
  - . Recommendation: [Disposal must be made according to official regulations.](#)

### SECTION 14: Transport information

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|---|---------------------------------|
| .14.1 UN-Number:  |                                 |
| . ADR, ADN, IMDG, IATA  | <a href="#">void</a>            |
| .14.2 UN proper shipping name:  |                                 |
| . ADR, ADN, IMDG, IATA  | <a href="#">void</a>            |
| .14.3 Transport hazard class(es):   |                                 |
| . ADR, ADN, IMDG, IATA  |                                 |
| . Class   | <a href="#">void</a>            |
| .14.4 Packing group:  |                                 |
| . ADR, IMDG, IATA   | <a href="#">void</a>            |
| .14.5 Environmental hazards:  | <a href="#">Not applicable.</a> |
| .14.6 Special precautions for user:                                       | <a href="#">Not applicable.</a> |
| .14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: | <a href="#">Not applicable.</a> |
| . UN „Model Regulation“:  | <a href="#">void</a>            |

### SECTION 15: Regulatory information

- . 15.2 Chemical safety assessment: [A Chemical Safety Assessment has not been carried out.](#)

### SECTION 16: Other information

- . Department issuing data specification sheet: [Product Safety Department](#)
- . Contact: Tel.: +43 (0)1 400 10 33 - [safety@tuechler.net](mailto:safety@tuechler.net)

**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative