ANERKENNUNGSZERTIFIKAT Nr. 1 / 16

für das Holzschutzmittel

impralit-TSK 40

FCIO ARGE HOLZSCHUTZMITTEL

Hersteller/Vertreiber
RÜTGERS Organics GmbH., Oppauer Straße 43, D - 68305 Mannheim
Tel.: (0049) (0621) 7654-0, Fax: (0049) (0621) 7654-456 ; E-mail : elke.pirzer@impra.de
home page : http://www.impra.de **Vertrieb: Kulba Farben-Lacke Handelsgesellschaft mbH**
Packerstrasse 163, 8561 Söding: Tel.: (03137) 61620, Fax: (03137) 616230, e-mail: office@kulba.at

Produktart
wasserlösliches Holzschutzemulsionskonzentrat.

Wirksamkeit
vorbeugend wirksam gegen Pilze (P); vorbeugend wirksam gegen Insekten (Iv); gegen Witterungseinflüsse und Feuchtigkeit (W)

Wirkstoff(e)
Propiconazol, Tebuconazol, Jodpropynylbuthylcarbamat, Alkyl (C12 -C16) dimethylbenzyl ammonium chlorid, Permethrin

Anwendungsbereich
Für Holz unter Dach und im Freien in den Gebrauchsklassen 1, 2 und 3 für tragende und/oder aussteifende Holzbauteile. Holz in der GK 3 nur mit dauerhafter Beschichtung. Keine Anwendung jedoch für: Wenn das behandelte Holz in Aufenthaltsräumen und zugehörigen Nebenräumen großflächig [Flächen- / Raumvolumenverhältnis gleich oder größer 0,2 (m^2/m^3)] eingesetzt werden soll, es sei denn, die behandelten Holzbauteile werden zu diesen Räumen hin abgedeckt. Wenn das behandelte Holz in sonstigen Innenraumen eingesetzt werden soll, es sei denn, die großflächige Anwendung ist bautechnisch als unvermeidlich begründet. In der GK 1, ausgenommen kleinflächig für tragende oder aussteifende Bauteile oder Bauteile, die auch der GK 2 oder GK 3 zugeordnet sind. Holz, das in direkten Kontakt mit Lebens- oder Futtermitteln kommen kann. Holz in Küchen, Vorratsräumen oder Silos, wo Lebens- oder Futtermittel lagern. Holz in Ställen, wenn Tiere Zugang zum imprägnierten Holz haben. Holz, das in Bienenhäusern oder Saunaanlagen verbaut wird. Allgemeine Einschränkungen siehe „Vorsichtsmaßnahmen beim Umgang mit Holzschutzmitteln" im Österreichischen Holzschutzmittelverzeichnis.

Anwendungsverfahren
Kesseldruckimprägnierung (T), Doppelvakuumverfahren (D). Automatisiertes Tauchen und Sprühen. Keine Verarbeitung und Lagerung des imprägnierten Holzes unter Bedingungen, die das Produkt oder Produktreste in Boden oder Gewässer einschließlich Kanalisation gelangen lassen, könnte. Das Produkt ist nur für Gewerbe- oder Industriebetriebe bestimmt und soll nur durch im Holzschutz erfahrene Fachleute angewandt werden. Kein Spritzen.

Gebrauchskonzentration mindestens
min. 1 %ige wässrige Lösung

*Die Gebrauchskonzentration ist auf die Einbringmenge, die Holzart, die Holzdimension und auf das verwendete Verfahren abzustimmen. Für die Wirksamkeit des Holzschutzmittels ist es erforderlich, dass das imprägnierte Holz, das mit **Oberflächenverfahren** behandelt wurde während der Bauphase dauerhaft vor einer direkten Bewitterung geschützt wird. Das imprägnierte Holz soll mindestens 7 Tage vor einer direkten Bewitterung geschützt gelagert werden; bei Temperaturen unter 5 °C jedoch mindestens 14 Tage. Auch die Verarbeitung von imprägniertem Holz unter Dach soll erst nach Fixierung der Wirkstoffe erfolgen.*

Auf-/Einbringmenge mindestens Gesamtholz

Oberflächenverfahren (S, St, K, T, L)	GK 1:	2,0 g/m²	GK 2:	3,8 g/m²	GK 3 (x):	4,8 g/m²
Kesseldruckverfahren (Es, D, KD)	GK 1:	0,3 kg/m³	GK 2:	1,0 kg/m³	GK 3:	1,2 kg/m³

(x) Das imprägnierte Holz ist mit einer **dauerhaften** Deckbeschichtung zu versehen.

Anerkennungszertifikat
gültig bis Ende 2025 *)

ARBEITSGEMEINSCHAFT HOLZSCHUTZMITTEL

Mag. H. Kohlmann
Vorsitzender

GEPRÜFTES HOLZSCHUTZMITTEL

Dr. K. Schaubmayr
Geschäftsführer

Wien, 12. Februar 2021

*) Dieses Produkt unterliegt den Bestimmungen des österreichischen Biozidproduktegesetzes BGBl. I Nr. 105/2013 und den einschlägigen Richtlinien und Verordnungen der Europäischen Union und darf nur gemäß diesen Bestimmungen in Österreich in Verkehr gebracht und verwendet werden. Im Fall eines Widerspruchs zu diesen Bestimmungen erlischt die Gültigkeit des Anerkennungszertifikats automatisch.

Fachverband der chemischen Industrie Österreich, Arbeitsgemeinschaft Holzschutzmittel
A-1045 Wien, Wiedner Hauptstraße 63, Postfach 325
Tel. +43 (05) 90 900-3749, Fax +43 (05) 90 900-280, e-mail schaubmayr@fcio.wko.at, http://www.holzschutzmittel.at

QUALITY CERTIFICATE

Certification holder : ***RÜTGERS Organics GmbH***

Product trade name : **IMPRALIT-TSK 40**

Use category : **Preventiv treatment**

Formulation type : Water based emulsion
Concentrate

Users category : Industrials

The CTB-P+ certification attests to:

- ✓ **The efficacy of the product** to prevent the attacks of the wood (or wood-based products) by biological organisms destroying or altering its appearance.
- ✓ **The validation** of the product / process couple.
- ✓ **The maintenance of the product quality** by regular technical audits of the manufacture and the control on the production site.
- ✓ **The relevance of the technical information** from the product supplier.

FCBA attests tothe conformity of the product described above, under the conditions provided for by the general rules of the CTB mark and of the reference document of the CTB-P+ mark:

This certificate is based on constant supervision and cannot take into account the evolutions or decisions taken during its validity period .

The latest updates of the following documentation is available at www.fcba.fr and www.ctbpplus.fr: The general rules of the CTB mark / the CTB-P+ mark reference document / the list of the certification holders / the lists of the certified products. This certificate only applies to products labelled with the certification mark logotype.

In case of dispute, only the French version of this certificate is the authentic text.

Certificate n° : 14491-En

Cancel and replace certificate n° 502-21-2142

Date of issue : 01/09/2024

Expiration date : 31/08/2027

nb of pages : 2

Le Directeur certification
Alain HOCQUET

Siège Social
10, rue Galilée
CS 81050 Champs sur Marne
77447 Marne la Vallée Cedex 02
www.fcba.fr

QUALITY CERTIFICATE

IMPRALIT-TSK 40

CERTIFICATION PRERIQUISITE	Health/ Environment acceptability according to REACH and CLP regulations

COMPOSITION (w/w)	Propiconazole	1,00%
	Tebuconazole	1,00%
	IPBC	1,00%
	Permethrine	2,00%
	ADBAC	5,00%

TREATMENT

Use class	SURFACE		IMPREGNATION			
	Critical value (g/m^2)		Critical value (kg/m^3)			
	antitermites (T)		without termites		antitermites (T)	
	Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
1	3,5	3,5	0,7	0,7	6,0	6,0
2	4,8	4,8	2,4	2,4	6,0	6,0
3.1	4,8	/	2,4	/	6,0	/
3.2	/	/	2,4	/	6,0	/
4 (retention 4)	/	/	/	/	/	/
4 (retention 4Sp)	/	/	/	/	/	/

BIOLOGICAL RISK COVERED*

Fungi:	Brown rot
Insects:	All beettles spp (I)
Termites:	Antitermite (T) qualification

* according to EN 599-1

PROCESS

Surface :	Short dipping Spray tunnel
Impregnation :	Vacuum pressure autoclave

USE DETAILS

Timber temporary not yet covered:	Efficacy according to leaching test done for use class 2 products
Outside uses for surface treated timber:	additional coating needed

impra®
we care for wood

Technical leaflet **Wood Preservation**

impralit-TSK 40

For treating timber
Use class 1-3

Registration No:	1/16
Tested according to European Standard	DIN-EN 46/47, DIN-EN 113, DIN-EN 117/118

Fixed impregnation salt without heavy metals to be applied via low- and high-pressure treatment in compliance with EN 335

Pack size	Containers of 1.000 l, contents 1000 kg.
Colour on wood	Colourless. More intensive colouring can be obtained by adding impralit-colour pastes.
Protective action	Prevents attack by wood destroying insects (incl. termites) and fungal decay. Prevents also blue stain and mould provided that wood is stored correctly. Further information on the prevention of attack by blue stain and mould on stored timber may be taken for example from the technical note of *SP Technical Research Institute of Sweden (RISE)* “Reduce the risk of discolouring fungi on pressure-impregnated timber”.
Presentation	Liquid, water-thinnable emulsion concentrate.
Active ingredients	10.0g/kg propiconazole, 10.0g/kg tebuconazole, 10.0g/kg IPBC, 20.0g/kg permethrine, 50.0g/kg benzalkonium chloride
Fields of application	impralit-TSK 40 is suitable for treating wood to be used according to the requirements of use class 1, 2 and 3 in conformity with EN 335 or ISO 21887. Supplemented by a preventive effect against termites (observe usage concentration).

Version 2020-11-19
This document replaces all previous leaflets.

Rütgers Organics GmbH • impra® • Oppauer Straße 43 • 68305 Mannheim • Deutschland
Tel. +49-(0)621-7654-0 • Fax +49-(0)621-7654-456 • eMail: info@impra.de
IMPRA Wood Protection Ltd. • Park Road Industrial Estate • Barrow in Furness • Cumbria LA14 4EQ, United Kingdom
Tel +44 (0) 1229 711206

Restrictions	Do not apply: on wood which may come in direct contact with food and animal feeding stuffs. on large-area structural components (ratio area/room the same as or larger than 0.2 (m^2/m^2) within or as boundary of living areas unless the interior surfaces are covered. on large-area structural components in other living areas unless large-scale treatment is stipulated on constructional grounds Impregnation salts, colour pastes and tannins contained in wood may easily be washed off the wood immediately after application. Take appropriate measures to avoid soiling of adjacent elements. The washing off does not affect the efficacy of the wood preservative. The wood preservative contains biocides protecting structural timber against fungal decay and insect attack. Therefore, apply only if stipulated or necessary. Misuse may also be harmful to health and to the environment. Treatment with this wood preservative only to be carried out by professionals. The technical information stated in this leaflet applies solely to wood that had not been chemically pre-treated. With wood pre-treated with other wood preservatives please ask for technical advice.
Application method	impralit-TSK 40 is to be applied by brushing, spraying or tunnel spraying, tank dipping, dipping as well as vacuum-pressure and double-vacuum impregnation. Dipping: impralit-TSK 40 should only be used for treating wood with moisture content ≤ 50 %. Pressure impregnation: Wood moisture should not exceed 35%. Open the plant when impregnation process is finished. Ensure sufficient ventilation before entering the plant.

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Absorption rate

Application method	Use class			Unit
	1	2	3	
By brush Spraying Tunnel spraying Dipping Tank dipping (> 24 hours)	2.0 (3.5)	4.8 (4.8)	4.8 (4.8)	g of concentrate / m² of wood
Double-vacuum pressure Vacuum-pressure	0.7 (6.0)	2.4 (6.0)	2.4 (6.0)	kg of concentrate / m³ of wood

All absorption values are in relationship to analysis zone. For termite protection, the values are in parentheses.

Concentration of the solution

The concentration of the solution is to be matched to absorption rate, wood species and the application method.
Recommended minimum concentration in compliance with RAL:

Use class	**Dipping**	**Vacuum-pressure**
1	1.0% (3.5%)	1.0% (2.0%)
2	2.5% (4.8%)	
3	2.5% (4.8%)	

For termite protection, the values are in parentheses.

Impregnation times

Impregnation times depend on dimensions, wood species, wood moisture and concentration of the solution. Further information and recommended values can be taken from the information sheet of the Deutsche Bauchemie (DBC): “Professional dipping of structural wood – planning and execution of wood protection by treatment without pressure”.

Preparation of the solution

impralit-TSK 40 can be mixed with water in any proportion. 100 litres of a 10% working solution are obtained by stirring 10kg of impralit-TSK 40 into 90 litres of water. A slight forming of foam is possible. The micro emulsion thus obtained is clear to milky and has a mild odour.
Control of the solution: Check density with refractometer and table.

Compatibility with other solutions

impralit-TSK 40 and its solutions are not compatible with other commercial wood preservative salts.

Fixation

impralit-TSK 40 can be slightly washed out immediately after impregnation. For the efficacy of the wood preservative it is essential that the treated wood is stored protected from weathering for at least 48 h and surface is dry.
Installation in use classes 3 may only take place if it is ensured that no wood preservative components can get into the ground, into the groundwater or into the sewage system by washing out, due to insufficient fixation. The user must ensure that this is observed.

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Characteristics	impralit-TSK 40 is liquid, fixing and water-thinnable.
Odour	The treated wood is odourless when dry.
Gluing properties	Before gluing impregnated wood or impregnating glued elements we advise to check whether the strength of the joints is maintained. In view of the large number of commercially available glues a general advice cannot be given. For compatibility tests please contact your glue supplier.
Overpainting	When coating wood impregnated with impralit-TSK 40 the drying may be delayed, discolorations and poor adhesion may occur. We advise a trial coat. Further information on preparation of the surface and wood protection by structural design can be taken from the information leaflet no. 18 issued by BFS.
Performance of wood treatment	The German Standard DIN 68 800-3: - Wood protection; preventive chemical wood protection – according to the national technical provisions applies to the preventive treatment with impralit-TSK 40 unless otherwise stipulated by the General Technical Approval. The approval has to be available at application site. Please ask manufacturer for the approval of this wood preservative. Treatment with this wood preservative only to be carried out by professionals.

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Gebrauchs- und Warnhinweise	To be handled by competent persons. Keep out of reach of children. For more information on safety during transport, storage and handling, please refer to the safety data sheet, which you can request from the sales office and which applies in conjunction with this technical data sheet. The handling and use of wood preservatives and their additives must be discussed with your occupational safety specialist, see EC Framework Directive 89/391 / EEC. Do not pour into eating, drinking or other household vessels. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs Avoid contact with skin. Wear suitable protective clothing (safety glasses, gloves). Do not spray plants. Avoid contact of plants with recently impregnated wood. Waste and leftovers must be disposed of in accordance with the locally applicable regulations. Completely emptied packaging must be sent to the recycling systems All sawing profiling etc. must be carried out before impregnation Further information about: • specific gravity /density • Labelling according to directive 1272/2008 (CLP) • Precaution and safety statements /H- and P-statements) • Transport, Storage and handling (particularly personal protective equipment) • Environmental protection (Water hazard class, disposal) • And further safety relevant aspects (e.g. first-aid) are given in material safety data sheet (MSDS), please contact our sales team. MSDS is valid together with this technical data sheet.
Storage/ Transport	Store only in the original container Ensure that it is only accessible to knowledgeable persons. Durable for at least 24 months in the unopened original container. Reseal opened containers tightly after use. Store and transport the containers protected from frost to avoid bursting. When exposed to frost, the concentrate becomes very viscous, the working solution freezes. When thawed and homogenised the concentrate and the working solution can be used as usual.

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This technical leaflet has been compiled to the best of our knowledge and experience. In view of the large number of possible applications, we are unable to give a guarantee for every case. In cases of doubt, our technical department should be contacted for further advice. Technical advice for application technique is given without obligation but to the best of our knowledge and experience. Verbal agreements and assurances warrant written confirmation.

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Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.11.2020 Version number 18 Revision: 03.11.2020

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

• **1.1 Product identifier**

• **Trade name: impralit-TSK 40**

• **Article number:** W769301
• **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** Wood preservatives

• **1.3 Details of the supplier of the safety data sheet**
• **Manufacturer/Supplier:**
RÜTGERS Organics GmbH
Oppauer Straße 43
D-68305 Mannheim
Tel.: **49-621-76540
US: 1-980-253-8880
Fax : **49-621-7654446
e-mail: SDB.rog@ruetgers-organics.de

• **Informing department:** see: Heading 16 (Contact)
• **1.4 Emergency telephone number:** see: Manufacturer/Supplier

*
SECTION 2: Hazards identification

• **2.1 Classification of the substance or mixture**
• **Classification according to Regulation (EC) No 1272/2008**


GHS08 health hazard

Repr. 1B	H360D	May damage the unborn child.
STOT RE 2	H373	May cause damage to the larynx through prolonged or repeated exposure.


GHS05 corrosion

Eye Dam. 1	H318	Causes serious eye damage.


GHS09 environment

Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.


GHS07

Acute Tox. 4	H302	Harmful if swallowed.
Skin Irrit. 2	H315	Causes skin irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.

• **2.2 Label elements**
• **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

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Safety data sheet
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Trade name: impralit-TSK 40

(Contd. of page 1)

• **Hazard pictograms**

GHS05 GHS07 GHS08 GHS09

• **Signal word** Danger

• **Hazard-determining components of labelling:**
Polymer based on a long chained fatty alcohol and 5 – 15 molecules of Ethylene-oxide
PERMETHRIN
propiconazole
3-Iodo-2-propynylbutylcarbamate
2-octyl-2H-isothiazol-3-one

• **Hazard statements**
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H360D May damage the unborn child.
H373 May cause damage to the larynx through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

• **Precautionary statements**
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P321 Specific treatment (see on this label).
P330 Rinse mouth.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **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:** Mixture consisting of the following components.

• **Dangerous components:**		
CAS: 9043-30-5	Polymer based on a long chained fatty alcohol and 5 – 15 molecules of Ethylene-oxide Eye Dam. 1, H318; Acute Tox. 4, H302	10-25%
CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8	2-(2-butoxyethoxy)ethanol Eye Irrit. 2, H319	5-10%

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Trade name: impralit-TSK 40

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CAS: 104376-75-2	poly(oxy-1,2-ethanediyl), α-phenyl-ω-hydroxy-, styrenated Aquatic Chronic 3, H412	5-10%
CAS: 68424-85-1 EINECS: 270-325-2 Index number: 612-140-00-5	Quaternary ammonium compounds, benzyl-C12-16-alkyl-dimethyl, chlorides Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302	<5%
CAS: 7632-00-0 EINECS: 231-555-9 Index number: 007-010-00-4	sodium nitrite Ox. Sol. 3, H272; Acute Tox. 3, H301; Aquatic Acute 1, H400	<5%
CAS: 52645-53-1 EINECS: 258-067-9 Index number: 613-058-00-2	PERMETHRIN Aquatic Acute 1, H400 (M=1000); Aquatic Chronic 1, H410 (M=1000); Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317	<5%
CAS: 55406-53-6 EINECS: 259-627-5 Index number: 616-212-00-7	3-Iodo-2-propynylbutylcarbamate Acute Tox. 3, H331; STOT RE 1, H372; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Skin Sens. 1, H317	<2%
CAS: 60207-90-1 EINECS: 262-104-4 Index number: 613-205-00-0	propiconazole Repr. 1B, H360D; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317	<1%
CAS: 107534-96-3 ELINCS: 403-640-2 Index number: 603-197-00-7	1-(4-chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl) pentan-3-ol Repr. 2, H361d; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=10); Acute Tox. 4, H302	<1%
CAS: 26530-20-1 EINECS: 247-761-7 Index number: 613-112-00-5	2-octyl-2H-isothiazol-3-one Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317	<1%
CAS: 107-21-1 EINECS: 203-473-3 Index number: 603-027-00-1	ethane-1,2-diol Acute Tox. 4, H302	<0.01%

• **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**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
• **After inhalation**
Supply fresh air and call for doctor for safety reasons.
In case of unconsciousness bring patient into stable side position for transport.
• **After skin contact** Instantly wash with water and soap and rinse thoroughly.
• **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
• **After swallowing** Instantly call for 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.

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

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Trade name: impralit-TSK 40

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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:** No special measures required.

*

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Inform respective authorities in case product reaches water or sewage system.
Dilute with much water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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 information on disposal.

*

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Precautions against electrostatic charging.
- **Information about protection against explosions and fires:** No special measures required.

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **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.
- **7.3 Specific end use(s)** No further relevant information available.

*

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **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 critical values that have to be monitored at the workplace.

112-34-5 2-(2-butoxyethoxy)ethanol	
WEL	Short-term value: 101.2 mg/m³, 15 ppm Long-term value: 67.5 mg/m³, 10 ppm
107-21-1 ethane-1,2-diol	
WEL	Short-term value: 104** mg/m³, 40** ppm Long-term value: 10* 52** mg/m³, 20** ppm Sk *particulate **vapour

- **Additional information:** The lists that were valid during the compilation were used as basis.

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- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes.
- **Breathing equipment:**
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
- **Protection of hands:**
Protective gloves.
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 breaktrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

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SECTION 9: Physical and chemical properties

• **9.1 Information on basic physical and chemical properties**	
• **General Information**	
• **Appearance:**	
Form:	Fluid
Colour:	Light yellow
• **Odour:**	Light
• **Odour threshold:**	Not determined.
• **pH-value at 20 °C:**	6.5
• **Change in condition**	
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	100 °C
• **Flash point:**	105 °C
• **Inflammability (solid, gaseous)**	Not applicable.
• **Ignition temperature:**	230 °C
• **Decomposition temperature:**	Not determined.
• **Self-inflammability:**	Product is not selfigniting.
• **Explosive properties:**	Product is not explosive.
• **Critical values for explosion:**	
Lower:	Not determined.
Upper:	Not determined.

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• **Vapour pressure at 20 °C:**	23 hPa
• **Density at 20 °C**	1.03 g/cm³
• **Relative density**	Not determined.
• **Vapour density**	Not determined.
• **Evaporation rate**	Not determined.
• **Solubility in / Miscibility with Water:**	Fully miscible
• **Partition coefficient: n-octanol/water:**	Not determined.
• **Viscosity:**	
dynamic:	Not determined.
kinematic:	Not determined.
• **Solvent content:**	
Organic solvents:	5.0 %
Water:	63.2 %
• **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**
- **Thermal decomposition / conditions to be avoided:**
  No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

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SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
  Harmful if swallowed.

• **LD/LC50 values that are relevant for classification:**		
68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyl-dimethyl, chlorides		
Oral	LD50	600 mg/kg (Rattus norvegicus (Ratte))
Dermal	LD50	1,560 mg/kg (Rattus norvegicus (Ratte))
7632-00-0 sodium nitrite		
Oral	LD50	85-180 mg/kg (Rattus norvegicus (Ratte))
52645-53-1 PERMETHRIN		
Oral	LD50	480 mg/kg (Rattus norvegicus (Ratte))
Dermal	LD50	>2,000 mg/kg (Rattus norvegicus (Ratte))
Inhalative	LC50/4 h	>23.5 mg/l (Rattus norvegicus (Ratte))
55406-53-6 3-Iodo-2-propynylbutylcarbamate		
Oral	LD50	500 mg/kg (Rattus norvegicus (Ratte))
Dermal	LD50	>2,000 mg/kg (Rattus norvegicus (Ratte))
Inhalative	LC50/4 h	6.89 mg/l (Rattus norvegicus (Ratte))
60207-90-1 propiconazole		
Oral	LD50	1,490 mg/kg (Mus musculus (Maus))

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		1,517 mg/kg (Rattus norvegicus (Ratte))
Dermal	LD50	>6,000 mg/kg (Oryctolagus cuniculus (eur. Kaninchen))
		>4,000 mg/kg (Rattus norvegicus (Ratte))
Inhalative	LC50/4 h	>5,800 mg/l (Rattus norvegicus (Ratte))
107534-96-3 1-(4-chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol		
Oral	LD50	1,700 mg/kg (Rattus norvegicus (Ratte))
Dermal	LD50	>5,000 mg/kg (Rattus norvegicus (Ratte))
Inhalative	LC50/4 h	>5 mg/l (Rattus norvegicus (Ratte))
26530-20-1 2-octyl-2H-isothiazol-3-one		
Oral	LD50	126 mg/kg (Rattus norvegicus (Ratte))
Dermal	LD50	>900 mg/kg (Rattus norvegicus (Ratte))
Inhalative	LC50/4 h	0.27 mg/l (Rattus norvegicus (Ratte))

- **Primary irritant effect:**
- **Skin corrosion/irritation**
  Causes skin irritation.
- **Serious eye damage/irritation**
  Causes serious eye damage.
- **Respiratory or skin sensitisation**
  May cause an allergic skin reaction.
- **Additional toxicological information:** Vapours irritate eyes, skin and air passages.
- **CMR effects (carcinogenity, 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**
  May damage the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**
  May cause damage to the larynx through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

- **12.1 Toxicity**

Aquatic toxicity:	
68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyl-dimethyl, chlorides	
LC50(48 h)	0.0058 mg/l (Daphnia magna)
LC50(96 h)	0.93 mg/l (Oncorhynchus mykiss)
	0.515 mg/l (Fish)
IC50	7.75 mg/l (bacteria)
NOEC	21 mg/l (Daphnia magna)
	34 mg/l (Carassius auratus (Goldfisch))
EC50 (72h)	0.049 mg/l (Selenastrum capricornutum)
7632-00-0 sodium nitrite	
LC50(48 h)	360-565 mg/l (Leuciscus idus)
LC50(96 h)	0.56-1.78 mg/l (Oncorhynchus mykiss)
EC50(48 h)	12.5-100 mg/l (Daphnia magna)
IC50	123 mg/l (Pseudomonas putida)
EC50 (72h)	1.23 mg/l (Scenedesmus quadricauda)
52645-53-1 PERMETHRIN	
LC50(96 h)	0.0051 mg/l (Oncorhynchus mykiss)

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IC50	>1.13 mg/l (Pseudokirchneriella subcapitata)
IC50	0.64 ug/l (Daphnia magna)
55406-53-6 3-Iodo-2-propynylbutylcarbamate	
LC50(48 h)	0.21 mg/l (Daphnia magna)
LC50(96 h)	0.43 mg/l (Fish)
IC50	0.026 mg/l (Desmodesmus subspicatus)
EC50 (72h)	0.022 mg/l (Scenedesmus subspicatus)
60207-90-1 propiconazole	
LC50(96 h)	6.8 mg/l (Cyprinus carpio)
	5.3 mg/l (Oncorhynchus mykiss)
	5.1-6.4 mg/l (Fish)
EC50(48 h)	10.2 mg/l (Daphnia magna)
IC50	0.76 mg/l (Scenedesmus subspicatus)
107534-96-3 1-(4-chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol	
LC50(96 h)	4.4 mg/l (Oncorhynchus mykiss)
	5.7 mg/l (Lepomis macrochirus)
EC50(48 h)	2.79 mg/l (Daphnia magna)
EC10	1,890 mg/l (Bakterientoxizität)
EC50 (72h)	3.3 mg/l (Scenedesmus subspicatus)
	3.8 mg/l (Pseudokirchneriella subcapitata)
26530-20-1 2-octyl-2H-isothiazol-3-one	
LC50(96 h)	0.16 mg/l (Lepomis macrochirus)
EC50(48 h)	0.42 mg/l (Daphnia magna)
IC50	0.084 mg/l (Scenedesmus subspicatus)
	30.2 mg/l (bacteria)
EC50 (72h)	0.084 mg/l (Scenedesmus subspicatus)

- **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.
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.
Danger to drinking water even if extremely small quantities leak into soil.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
- **12.5 Results of PBT and 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 not be disposed of together with household garbage. Do not allow product to reach sewage system.

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• European waste catalogue	
03 00 00	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 02 00	wastes from wood preservation
03 02 02*	organochlorinated wood preservatives

• **Uncleaned packagings:**
• **Recommended cleaning agent:** Water, if necessary with cleaning agent.

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SECTION 14: Transport information

• **14.1 Substance Index Number**	
• **ADR, IMDG, IATA**	UN3082
• **14.2 UN proper shipping name**	
• **ADR, IATA**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN)
• **IMDG**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN), MARINE POLLUTANT
• **14.3 Transport hazard class(es)**	
• **ADR, IMDG, IATA**	
• **Class**	9 Miscellaneous dangerous substances and articles.
• **Label**	9
• **14.4 Packing group**	
• **ADR, IMDG, IATA**	III
• **14.5 Environmental hazards:**	Product contains environmentally hazardous substances: Quaternary ammonium compounds, benzyl-C12-16-alkyl-dimethyl, chlorides, PERMETHRIN
• **Marine pollutant:**	Symbol (fish and tree)
• **Special marking (ADR):**	Symbol (fish and tree)
• **Special marking (IATA):**	Symbol (fish and tree)
• **14.6 Special precautions for user**	Warning: Miscellaneous dangerous substances and articles.
• **Hazard Index Number:**	90
• **EMS Number:**	F-A,S-F
• **Segregation groups**	Nitrites and their mixtures
• **Stowage Category**	A
• **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
• **Transport/Additional information:**	
• **ADR**	
• **Limited quantities (LQ)**	5L

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• **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
• **Transport category**	3
• **Tunnel restriction code**	E
• **IMDG**	
• **Limited quantities (LQ)**	5L
• **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
• **UN "Model Regulation":**	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN), 9, III

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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.
• **Seveso category** E1 Hazardous to the Aquatic Environment
• **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
• **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
• **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 55

• **Regulation (EU) No 649/2012**

52645-53-1	PERMETHRIN	Annex I Part 1
60207-90-1	propiconazole	Annex I Part 1

• **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

• **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

• **Reasons for alterations**
• **Relevant phrases**
H272 May intensify fire; oxidiser.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H360D May damage the unborn child.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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H412 Harmful to aquatic life with long lasting effects.

- ***Department issuing data specification sheet:*** *Product safety department, Mannheim*
- ***Contact:***
  RÜTGERS Organics
  Product Safety
  *Tel. **49 / 621 7654 247*
- ***Abbreviations and acronyms:***
  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)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  Ox. Sol. 3: Oxidizing solids – Category 3
  Acute Tox. 3: Acute toxicity - oral – Category 3
  Acute Tox. 4: Acute toxicity - oral – Category 4
  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
  Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  Skin Sens. 1: Skin sensitisation – Category 1
  Repr. 1B: Reproductive toxicity – Category 1B
  Repr. 2: Reproductive toxicity – Category 2
  STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
  STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
  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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- **** Data compared to the previous version altered.***