

XYLOFARM EXTRA - Impregnation wood preservative**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** XYLOFARM 9LHF 5 - impregnation wood preservative
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: K ccX`dfYgyfj Uhj Y`k Jh`Vta VjbyX`YZVWfU[U]bghz b[] UbX`]bgVMtg
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:** EVOCHEM S.A.
Tzavardella Place
133 41 PHILI , ATTICA - GREECE
Phone.: 0030 210 5590460 , 0030 210 5590155 -
Fax: 0030 210 6254737 , 0030 210 5590244
info@evochem.gr; vmergoupis@evochem.gr;
sales@evochem.gr
www.evochem.gr
- 1.4 Emergency telephone number:** National Poisoning Center 2107793777

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Sp. Tox. 1, H304
Aquatic Acute 1, H400
Aquatic Chronic 1, H410

Ingredients of unknown toxicity : Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 1%

Ingredients of unknown ecotoxicity : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1%

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R66
N; R50/53

Human health hazards : Repeated exposure may cause skin dryness or cracking.

Environmental hazards : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word : **Danger**

Hazard statements : **H304** May be fatal if swallowed and enters airways.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention : Avoid release to the environment.

Response : **P201** SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.

Storage : **S2** Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients : Naphtha (petroleum), hydrotreated heavy

Supplemental label elements : Contains permethrin (ISO), propiconazole (ISO) and 3-iodo-2-propynyl butylcarbamate. May produce an allergic reaction. Repeated exposure may cause skin dryness or cracking.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Yes, applicable.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Naphtha (petroleum), hydrotreated heavy	REACH #: 01-2119457273-39 EC: 265-150-3 CAS: 64742-48-9 Index: 649-327-00-6	≥75 - <90	Xn; R65 R66	Asp. Tox. 1, H304 EUH066	[1]
2-butoxyethanol	EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≥5 - <10	Xn; R20/21/22 Xi; R36/38	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332	[1] [2]
Oxirane, 2-methyl-, polymer with oxirane, mono(2-ethylhexyl) ether	CAS: 64366-70-7	≥1 - <3	Xn; R20	Acute Tox. 4, H332	[1]
3-iodo-2-propynyl butylcarbamate	EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	0.75	R52/53 T; R23, R48/23 Xn; R22 Xi; R41 R43 N; R50	Aquatic Chronic 3, H412 Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (inhalation) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
permethrin (ISO)	EC: 258-067-9 CAS: 52645-53-1 Index: 613-058-00-2	0.25	Xn; R20/22 R43 N; R50/53	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
propiconazole (ISO)	EC: 262-104-4 CAS: 60207-90-1 Index: 613-205-00-0	0.24	Xn; R22 R43 N; R50/53 See Section 16 for the full text of the R-phrases declared above.	Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	[1]

Type

- [1] Substance classified with a health or environmental hazard
 [2] Substance with a workplace exposure limit
 [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
 [5] Substance of equivalent concern
 Other hazards which do not result in classification

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

XYLOFARM EXTRA - Impregnation wood preservative**SECTION 4: FIRST AID MEASURES**

- Ingestion** : ☑ Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : ☑ May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
- Ingestion** : ☑ Adverse symptoms may include the following:
nausea or vomiting

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

5.3 Advice for firefighters

- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.2 Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
- 6.3 Methods and materials for containment and cleaning up**
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s). (Applicable when exposure scenario is available.)

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s). (Applicable when exposure scenario is available.)

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Europe 2-butoxyethanol	EU OEL (Europe, 4/2006). Absorbed through skin. Notes: Indicative Limit value: 20 ppm 8 hours. Limit value: 98 mg/m ³ 8 hours. Short term limit value: 50 ppm 15 minutes. Short term limit value: 246 mg/m ³ 15 minutes.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

Austria

2-butoxyethanol

GKV_MAK (Austria, 9/2007). Absorbed through skin.

TWA: 20 ppm 8 hours.

TWA: 98 mg/m³ 8 hours.

STEL: 40 ppm, 4 times per shift, 30 minutes.

STEL: 200 mg/m³, 4 times per shift, 30 minutes.

2-butoxyethanol

Lijst Grenswaarden / Valeurs Limites (Belgium, 6/2007).

Absorbed through skin.

TWA: 20 ppm 8 hours.

TWA: 98 mg/m³ 8 hours.

STEL: 50 ppm 15 minutes.

STEL: 246 mg/m³ 15 minutes.

Paraffin Oil

Lijst Grenswaarden / Valeurs Limites (Belgium, 6/2007).

TWA: 5 mg/m³ 8 hours. Form: mist

STEL: 10 mg/m³ 15 minutes. Form: mist

Bulgaria

2-butoxyethanol

РБ МТСП и МЗ Наредба №13/2003 (Bulgaria, 8/2007).

Absorbed through skin.

Limit value 8 hours: 98 mg/m³ 8 hours.

Limit value 15 min: 246 mg/m³ 15 minutes.

Paraffin Oil

РБ МТСП и МЗ Наредба №13/2003 (Bulgaria, 8/2007).

Limit value 8 hours: 5 mg/m³ 8 hours.

permethrin (ISO)

РБ МТСП и МЗ Наредба №13/2003 (Bulgaria, 8/2007).

Limit value 8 hours: 5 mg/m³ 8 hours.

Croatia

2-butoxyethanol

EU OEL (Europe, 4/2006). Absorbed through skin. Notes:

Indicative

Limit value: 20 ppm 8 hours.

Limit value: 98 mg/m³ 8 hours.

Short term limit value: 50 ppm 15 minutes.

Short term limit value: 246 mg/m³ 15 minutes.

Czech Republic

2-butoxyethanol

178/2001 (Czech Republic, 12/2007). Absorbed through skin.

TWA: 100 mg/m³ 8 hours.

TWA: 20.7 ppm 8 hours.

STEL: 200 mg/m³ 15 minutes.

STEL: 41.4 ppm 15 minutes.

Paraffin Oil

178/2001 (Czech Republic, 12/2007).

TWA: 5 mg/m³ 8 hours.

STEL: 10 mg/m³ 15 minutes.

Denmark

2-butoxyethanol

Arbejdstilsynet (Denmark, 3/2008). Absorbed through skin.

TWA: 20 ppm 8 hours.

TWA: 98 mg/m³ 8 hours.

Paraffin Oil

Arbejdstilsynet (Denmark, 3/2008).

TWA: 1 mg/m³ 8 hours. Form: mist and particles

Estonia

2-butoxyethanol

Sotsiaalminister (Estonia, 10/2007). Absorbed through skin.

Skin sensitizer.

TWA: 98 mg/m³ 8 hours.

TWA: 20 ppm 8 hours.

STEL: 246 mg/m³ 15 minutes.

STEL: 50 ppm 15 minutes.

Finland

2-butoxyethanol

Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 8/2007). Absorbed through skin.

TWA: 20 ppm 8 hours.

TWA: 98 mg/m³ 8 hours.

STEL: 50 ppm 15 minutes.

STEL: 250 mg/m³ 15 minutes.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

2-butoxyethanol

INRS (France, 12/2007). Absorbed through skin. Notes:
Regulatory indicative exposure limits
TWA: 2 ppm 8 hours.
TWA: 9.8 mg/m³ 8 hours.
STEL: 147.6 mg/m³ 15 minutes.
STEL: 30 ppm 15 minutes.

Germany

2-butoxyethanol

TRGS900 AGW (Germany, 2/2009). Absorbed through skin.
TWA: 98 mg/m³ 8 hours.
PEAK: 392 mg/m³ 15 minutes.
TWA: 20 ppm 8 hours.
PEAK: 80 ppm 15 minutes.

Greece

2-butoxyethanol

PD 90/1999 (Greece, 8/2007). Absorbed through skin.
TWA: 25 ppm 8 hours.
TWA: 120 mg/m³ 8 hours.

Paraffin Oil

PD 90/1999 (Greece, 8/2007).
TWA: 5 mg/m³ 8 hours.

Hungary

Naphtha (petroleum), hydrotreated heavy
2-butoxyethanol

EüM-SzCsM (Hungary).
TWA: 5 mg/m³ Form: Mist
EüM-SzCsM (Hungary, 12/2007). Absorbed through skin. Skin sensitizer.
TWA: 98 mg/m³ 8 hours.
PEAK: 246 mg/m³ 15 minutes.
EüM-SzCsM (Hungary, 12/2007).
CEIL: 5 mg/m³ Form: mist

Paraffin Oil

Ireland

2-butoxyethanol

NAOSH (Ireland, 8/2007). Absorbed through skin.
OELV-8hr: 20 ppm 8 hours.
OELV-8hr: 98 mg/m³ 8 hours.
OELV-15min: 50 ppm 15 minutes.
OELV-15min: 246 mg/m³ 15 minutes.

Paraffin Oil

NAOSH (Ireland, 8/2007).
OELV-8hr: 5 mg/m³ 8 hours. Form: mist
OELV-15min: 10 mg/m³ 15 minutes. Form: mist

Italy

2-butoxyethanol

Ministero della Salute (Italy, 4/2008). Absorbed through skin.
TWA: 20 ppm 8 hours.
TWA: 98 mg/m³ 8 hours.
STEL: 50 ppm 15 minutes.
STEL: 246 mg/m³ 15 minutes.

Latvia

2-butoxyethanol

LV Nat. Standardisation and Meterological Centre (Latvia, 5/2007). Absorbed through skin.
TWA: 98 mg/m³ 8 hours.
TWA: 20 ppm 8 hours.
STEL: 50 ppm 15 minutes.
STEL: 246 mg/m³ 15 minutes.

Lithuania

2-butoxyethanol

Del Lietuvos Higienos Normos (Lithuania, 10/2007). Absorbed through skin.
TWA: 50 mg/m³ 8 hours.
TWA: 10 ppm 8 hours.
STEL: 100 mg/m³ 15 minutes.
STEL: 20 ppm 15 minutes.

Netherlands

2-butoxyethanol

MinSZW Wettelijke Grenswaarden (Netherlands, 4/2008). Absorbed through skin.
MAC-TGG, 8 uur: 100 mg/m³ 8 hours.
MAC-TGG, 15 min.: 246 mg/m³ 15 minutes.

Paraffin Oil

MinSZW Wettelijke Grenswaarden (Netherlands, 4/2008).
MAC-TGG, 8 uur: 5 mg/m³ 8 hours. Form: nevel

Norway

2-butoxyethanol

Arbeidstilsynet (Norway, 3/2009). Absorbed through skin.
TWA: 10 ppm 8 hours.
TWA: 50 mg/m³ 8 hours.

Paraffin Oil

Arbeidstilsynet (Norway, 3/2009).
TWA: 1 mg/m³ 8 hours. Form: mist and particles
TWA: 50 mg/m³ 8 hours. Form: vapour

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

Poland

☑ Naphtha (petroleum), hydrotreated heavy

Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz. U. 2002 Nr 217, poz. 1833, z późn. zm.) (Poland, 12/2011).

STEL: 900 mg/m³ 15 minutes.

TWA: 300 mg/m³ 8 hours.

2-butoxyethanol

Ministra Pracy i Polityki Społecznej (Poland, 9/2007).

TWA: 98 mg/m³ 8 hours.

STEL: 200 mg/m³ 15 minutes.

Paraffin Oil

Ministra Pracy i Polityki Społecznej (Poland, 9/2007).

TWA: 5 mg/m³ 8 hours.

STEL: 10 mg/m³ 15 minutes.

Portugal

☑ 2-butoxyethanol

Instituto Português da Qualidade (Portugal, 3/2007).

TWA: 20 ppm 8 hours.

Paraffin Oil

Instituto Português da Qualidade (Portugal, 3/2007).

TWA: 5 mg/m³ 8 hours. Form: aerosol

STEL: 10 mg/m³ 15 minutes. Form: aerosol

Romania

☑ 2-butoxyethanol

Ministry of Social Assistance and Family Policies and Ministry of Public Health (Romania, 10/2006). Absorbed through skin.

Short term: 50 ppm 15 minutes.

VLA: 98 mg/m³ 8 hours.

VLA: 20 ppm 8 hours.

Short term: 246 mg/m³ 15 minutes.

Paraffin Oil

Ministry of Social Assistance and Family Policies and Ministry of Public Health (Romania, 10/2006).

VLA: 5 mg/m³ 8 hours.

Short term: 10 mg/m³ 15 minutes.

Slovakia

2-butoxyethanol

Nariadenie Vlády Slovenskej republiky (Slovakia, 6/2007).

Absorbed through skin.

TWA: 98 mg/m³ 8 hours.

TWA: 20 ppm 8 hours.

CEIL: 246 mg/m³

Slovenia

2-butoxyethanol

Uradni list Republike Slovenije (Slovenia, 6/2007). Absorbed through skin.

TWA: 98 mg/m³ 8 hours.

TWA: 20 ppm 8 hours.

Spain

☑ 2-butoxyethanol

INSHT (Spain, 2/2009). Absorbed through skin.

TWA: 20 ppm 8 hours.

TWA: 98 mg/m³ 8 hours.

STEL: 245 mg/m³ 15 minutes.

STEL: 50 ppm 15 minutes.

Paraffin Oil

INSHT (Spain, 2/2009). Absorbed through skin.

TWA: 5 mg/m³ 8 hours. Form: mist

STEL: 10 mg/m³ 15 minutes. Form: mist

Sweden

☑ 2-butoxyethanol

AFS 2005:17 (Sweden, 6/2007). Absorbed through skin.

TWA: 10 ppm 8 hours.

TWA: 50 mg/m³ 8 hours.

STEL: 20 ppm 15 minutes.

STEL: 100 mg/m³ 15 minutes.

Paraffin Oil

AFS 2005:17 (Sweden, 6/2007).

TWA: 1 mg/m³ 8 hours. Form: mist and fume

STEL: 3 mg/m³ 15 minutes. Form: mist and fume

Switzerland

Naphtha (petroleum), hydrotreated heavy

SUVA (Switzerland, 6/2013).

STEL: 600 mg/m³ 15 minutes.

STEL: 100 ppm 15 minutes.

TWA: 50 ppm 8 hours.

TWA: 300 mg/m³ 8 hours.

2-butoxyethanol

SUVA (Switzerland, 1/2009). Absorbed through skin.

TWA: 10 ppm 8 hours.

TWA: 49 mg/m³ 8 hours.

STEL: 20 ppm 15 minutes.

STEL: 98 mg/m³ 15 minutes.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

Turkey

2-butoxyethanol

TR ISGGM OEL (Turkey, 3/2008). Absorbed through skin.

TWA: 98 mg/m³ 8 hours.

TWA: 20 ppm 8 hours.

STEL: 246 mg/m³ 15 minutes.

STEL: 50 ppm 15 minutes.

Paraffin Oil

NIOSH REL (United States, 6/2009).

TWA: 5 mg/m³ 10 hours. Form: Mist

STEL: 10 mg/m³ 15 minutes. Form: Mist

United Kingdom (UK)

2-butoxyethanol

EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin.

STEL: 50 ppm 15 minutes.

TWA: 25 ppm 8 hours.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
- Color** : Off-white.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flash point** : Not available.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Burning time** : Not applicable.
- Burning rate** : Not applicable.
- Upper/lower flammability or explosive limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : Not available.
- Solubility(ies)** : Not available.
- Dispersibility properties** : Not available.
- Partition coefficient: n-octanol/ water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Dynamic (room temperature): 9.7 mPa·s
- Explosive properties** : Not available.
- Oxidizing properties** : Not available.

9.2 Other information

No additional information.

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

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SECTION 10: STABILITY AND REACTIVITY

- 10.4 Conditions to avoid** : No specific data.
10.5 Incompatible materials : No specific data.
10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Naphtha (petroleum), hydrotreated heavy	LC50 Inhalation Vapor	Rat	>6.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>3000 mg/kg	-
	LD50 Oral	Rat	>15000 mg/kg	-
2-butoxyethanol	LC50 Inhalation Vapor	Rat	450 mg/l	4 hours
	LD50 Dermal	Rabbit	220 mg/kg	-
	LD50 Oral	Rabbit	300 mg/kg	-
	LD50 Oral	Rat	917 mg/kg	-
Oxirane, 2-methyl-, polymer with oxirane, mono (2-ethylhexyl) ether	LC50 Inhalation Dusts and mists	Rat	2.76 mg/l	4 hours
	LD50 Dermal	Rat	>4000 mg/kg	-
3-iodo-2-propynyl butylcarbamate	LD50 Oral	Rat	2645 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	0.763 g/m ³	4 hours Aerosol.
	LD50 Dermal	Rabbit	>2000 mg/kg	-
permethrin (ISO)	LD50 Oral	Rat - Female	1056 mg/kg	-
	LD50 Oral	Rat - Male	1795 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	>23.5 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
propiconazole (ISO)	LD50 Dermal	Rat	>1750 mg/kg	-
	LD50 Oral	Rat	383 mg/kg	-
	LD50 Oral	Rat	480 mg/kg	-
	LD50 Oral	Rat	480 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	1264 mg/m ³	4 hours
LD50 Oral	Rat	>4 g/kg	-	
	Rat	1517 mg/kg	-	

Conclusion/Summary : Not available.

Acute toxicity estimates

Route	ATE value
Oral	15283.3 mg/kg
Dermal	3666.7 mg/kg
Inhalation (vapors)	183.3 mg/l
Inhalation (dusts and mists)	74.33 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
3-iodo-2-propynyl butylcarbamate	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Severe irritant	Rabbit	-	-	-

Conclusion/Summary : Not available.

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Sensitizer

Product/ingredient name	Route of exposure	Species	Result
3-iodo-2-propynyl butylcarbamate	skin	Guinea pig	Not sensitizing
permethrin (ISO)	skin	Guinea pig	Sensitizing
propiconazole (ISO)	skin	Guinea pig	Sensitizing

Conclusion/Summary : Not available.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
3-iodo-2-propynyl butylcarbamate	-	Experiment: In vitro Subject: Bacteria	Negative

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
3-iodo-2-propynyl butylcarbamate	Positive	-	Negative	Rabbit - Female	Oral: 50 mg/kg	13 days; 7 days per week
	Negative	-	Negative	Rabbit - Female	Oral: 20 mg/kg	13 days; 7 days per week

Conclusion/Summary : Not available.

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
3-iodo-2-propynyl butylcarbamate	Negative - Oral	Rabbit - Female	50 mg/kg	-

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
3-iodo-2-propynyl butylcarbamate	Category 1	Inhalation	Not determined

Aspiration hazard

Product/ingredient name	Result
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : May be fatal if swallowed and enters airways.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation.
- Eye contact** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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SECTION 11: TOXICOLOGICAL INFORMATION

- Inhalation** : No specific data.
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting
- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
- Eye contact** : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
3-iodo-2-propynyl butylcarbamate	Sub-chronic NOAEL Oral	Rat	35 mg/kg	90 days
	Chronic NOAEL Oral	Rat	20 mg/kg	2 years
	Sub-chronic NOAEL Dermal	Rat	200 mg/kg	90 days
	Sub-acute NOAEL Oral	Rabbit - Male, Female	13 mg/kg	-
permethrin (ISO) propiconazole (ISO)	Sub-chronic NOAEL Inhalation Vapor	Rat	1.16 mg/m ³	90 days
	Sub-chronic NOAEL Oral	Dog	5 mg/kg	1 years
	Sub-chronic NOAEL Oral	Mouse	2.7 mg/kg	17 weeks
	Sub-chronic NOAEL Dermal	Rat	100 mg/kg	28 days

- Conclusion/Summary** : Not available.
- General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.
- Other information** : Not available.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Naphtha (petroleum), hydrotreated heavy	Acute LC50 >100 mg/l	Algae	96 hours
	Acute LC50 >100 mg/l	Daphnia	96 hours
2-butoxyethanol	Acute LC50 >100 mg/l	Fish	96 hours
	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Chronic NOEC 1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 20 mg/l	Fish - Brachydanio rerio	96 hours
Oxirane, 2-methyl-, polymer with oxirane, mono (2-ethylhexyl) ether 3-iodo-2-propynyl butylcarbamate	EC50 0.05 mg/l	Daphnia - Daphnia magna	21 days
	EC50 44 mg/l	Micro-organism	3 hours
	NOEC 0.0084 mg/l	Fish - Pimephales promelas - Larvae	35 days
	NOEC 0.049 mg/l	Fish - rainbow trout	96 hours
	Acute EC50 0.022 mg/l	Algae - Scenedesmus subspicatus	72 hours
permethrin (ISO)	Acute EC50 0.16 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.067 mg/l	Fish - rainbow trout	96 hours
	Acute NOEC 0.0046 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 0.5 mg/l	Algae	72 hours
	Acute EC50 0.00064 mg/l	Daphnia - Daphnia magna	48 hours
	Acute EC50 0.00017 mg/l	Daphnia	48 hours
	Acute EC50 0.112 ppb Fresh water	Daphnia - Daphnia magna	48 hours
Acute IC50 >1.13 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	
propiconazole (ISO)	Acute LC50 0.548 ppb Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 0.0051 mg/l	Fish	96 hours
	Acute LC50 0.0076 mg/l	Fish	96 hours
	Acute LC50 0.62 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute EC50 0.76 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 10.2 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 4.3 mg/l	Fish	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
3-iodo-2-propynyl butylcarbamate	OECD 301F	25 % - 28 days	1.03 gO ₂ /g ThOD	30 mg/l Activated sludge

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Naphtha (petroleum), hydrotreated heavy	-	-	Not readily
3-iodo-2-propynyl butylcarbamate	-	-	Readily
permethrin (ISO)	-	-	Not readily
propiconazole (ISO)	-	-	Not readily

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SECTION 12: ECOLOGICAL INFORMATION

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Naphtha (petroleum), hydrotreated heavy	5.5 to 7.2	-	high
3-iodo-2-propynyl butylcarbamate	2.81	-	low
permethrin (ISO)	6.1	570	high
propiconazole (ISO)	3.65	116	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

European waste catalogue (EWC)

Waste code	Waste designation
03 02 05*	other wood preservatives containing hazardous substances
15 01 10*	packaging containing residues of or contaminated by hazardous substances







Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
14.1 UN number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3-iodo-2-propynyl butylcarbamate, permethrin (ISO))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3-iodo-2-propynyl butylcarbamate, permethrin (ISO))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3-iodo-2-propynyl butylcarbamate, permethrin (ISO))
14.3 Transport hazard class(es)	9 M6  	9  	9  
14.4 Packing group	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.
14.6 Special precautions for user	Transport within 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.	Transport within 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.	Transport within 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.
Additional information	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Tunnel code (E)	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Emergency schedules (EmS) F-A, S-F	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

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SECTION 15: REGULATORY INFORMATION

Other EU regulations

- Europe inventory** : Not determined.
Black List Chemicals : Not listed
Priority List Chemicals : Listed
Industrial emissions (integrated pollution prevention and control) - Air : Not listed
Industrial emissions (integrated pollution prevention and control) - Water : Not listed

National regulations

- Product registration** : **Australia inventory (AICS)**: All components are listed or exempted.
China inventory (IECSC): At least one component is not listed.
Japan inventory: Not determined.
Korea inventory: All components are listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): Not determined.
Taiwan Chemical Substances Inventory (TCSI): Not determined.
United States inventory (TSCA 8b): Not determined.
Europe inventory: All components are listed or exempted.
Canada inventory: Not determined.

Denmark

- MAL-code** : 5-3

Germany

- Hazard class for water** : 2 Appendix No. 4
Chemical Weapons Convention List Schedule I Chemicals : Not listed
Chemical Weapons Convention List Schedule II Chemicals : Not listed
Chemical Weapons Convention List Schedule III Chemicals : Not listed

- 15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: OTHER INFORMATION

☑ Indicates information that has changed from previously issued version.

Abbreviations and acronyms

- : ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
☑ Sp. Tox. 1, H304	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

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SECTION 16: OTHER INFORMATION

Full text of abbreviated H statements	: H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H315 Causes skin irritation. 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. H372 Causes damage to organs through prolonged or repeated exposure if inhaled. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	: Acute Tox. 3, H311 ACUTE TOXICITY (dermal) - Category 3 Acute Tox. 3, H331 ACUTE TOXICITY (inhalation) - Category 3 Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4 Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4 Aquatic Acute 1, H400 AQUATIC HAZARD (ACUTE) - Category 1 Aquatic Chronic 1, H410 AQUATIC HAZARD (LONG-TERM) - Category 1 Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM) - Category 3 Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1 EUH066 Repeated exposure may cause skin dryness or cracking. Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2 Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1 STOT RE 1, H372 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 1
Full text of abbreviated R phrases	: R23- Toxic by inhalation. R48/23- Toxic: danger of serious damage to health by prolonged exposure through inhalation. R20- Harmful by inhalation. R22- Harmful if swallowed. R20/22- Harmful by inhalation and if swallowed. R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R65- Harmful: may cause lung damage if swallowed. R41- Risk of serious damage to eyes. R36/38- Irritating to eyes and skin. R43- May cause sensitization by skin contact. R66- Repeated exposure may cause skin dryness or cracking. R50- Very toxic to aquatic organisms. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Full text of classifications [DSD/DPD]	: T - Toxic Xn - Harmful Xi - Irritant N - Dangerous for the environment
Date of printing	: February 11, 2016.
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Date of previous issue	: November 24, 2015.
Version	: 2
Notice to reader	

The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this security data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -