SAFETY DATA SHEET

Fungistop

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

1.1 Product identifier

Product name : Fungistop

Code : 117082

Product description : Not available.

Product type : Liquid.

Other means of identification : Not available.

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

Identified uses

Wood preservative with combined effect against fungi and insects

1.3 Details of the supplier of the safety data sheet

e-mail address of person responsible for this SDS : berling@berling.gr

Supplier

BERLING ABEE
Thesi Ag.Paraskevi
32011 Inofita, Viotia-Greece
Tel: +302262031663 -
fax: +302262031293
info@berling.gr
www.berling.gr

Hours of operation : Monday - Friday: 08.00 - 16.00 (CET)

1.4 Emergency telephone number

Emergency telephone number : +30 210 7793 777(GreeK Poison Center)

National advisory body/Poison Center

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]

Flam. Liq. 3, H226
Eye Irrit. 2, H319
Asp. Tox. 1, H304
Aquatic Acute 1, H400
Aquatic Chronic 1, H410

Ingredients of unknown toxicity :

Ingredients of unknown ecotoxicity :

See Section 16 for the full text of the 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 : Flammable liquid and vapor.
Causes serious eye irritation.
May be fatal if swallowed and enters airways.
Very toxic to aquatic life with long lasting effects.

Precautionary statements

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

Prevention : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Wear eye protection.

Response : Wash hands thoroughly after handling. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. In case of fire: Use dry chemical, CO_2, water spray (fog) or foam to extinguish.

Storage : Store in a well-ventilated place. Store locked up. Keep cool.

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

Hazardous ingredients : Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Supplemental label elements : Contains 3-iodo-2-propynyl butylcarbamate, poly (ethyleneglycol) dimethacrylate, m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate and propiconazole (ISO). 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.

Tactile warning of danger : Yes, applicable.

2.3 Other hazards

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Type
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	REACH #: 01-2119457273-39 EC: 918-481-9 (ex 265-150-3) CAS: 64742-48-9 Index: 649-327-00-6	≥75 - ≤90	Asp. Tox. 1, H304 EUH066	[1] [2]
2-butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤10	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1] [2]
Oxirane, 2-methyl-, polymer with oxirane, mono(2-ethylhexyl) ether	REACH #: Polymer CAS: 64366-70-7	≤3	Acute Tox. 4, H332 Aquatic Chronic 3, H412	[1]
3-iodo-2-propynyl butylcarbamate	REACH #: Biocide EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	0.75	Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) (inhalation) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	[1]
Paraffin Oil	REACH #: 01-2119487078-27 EC: 232-455-8 CAS: 8042-47-5	1	Asp. Tox. 1, H304	[1] [2]
poly (ethyleneglycol) dimethacrylate	REACH #: Polymer CAS: 26142-30-3	<1	Skin Sens. 1, H317	[1]
m-phenoxybenzyl 3-(2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate	REACH #: Biocide EC: 258-067-9 CAS: 52645-53-1 Index: 613-058-00-2	0.25	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)	[1] [2]
propiconazole (ISO)	REACH #: Biocide EC: 262-104-4 CAS: 60207-90-1 Index: 613-205-00-0	0.24	Acute Tox. 4, H302 Skin Sens. 1, H317 Repr. 1B, H360D (Unborn child) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) **See Section 16 for the full text of the H statements declared above.**	[1]

Type

SECTION 3: Composition/information on ingredients

[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
[6] Additional disclosure due to company policy

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.

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 : Causes serious eye irritation.

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 : Adverse symptoms may include the following:
pain or irritation
watering
redness

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.

SECTION 4: First aid measures

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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".

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. Use spark-proof tools and explosion-proof equipment. 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.

SECTION 6: Accidental release measures

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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. See Section 10 for incompatible materials before handling or use. May not be disposed of in sewers, including rainwater canals.

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

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
Europe	
2-butoxyethanol	**EU OEL (Europe, 12/2009). Absorbed through skin. Notes: list of indicative occupational exposure limit values** TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m³ 15 minutes.
Austria	
2-butoxyethanol	**Regulation on Limit Values - MAC (Austria, 12/2011). Absorbed through skin.** TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. PEAK: 40 ppm, 4 times per shift, 30 minutes. PEAK: 200 mg/m³, 4 times per shift, 30 minutes.
Belgium	
2-butoxyethanol	**Limit values (Belgium, 4/2014). 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	**Limit values (Belgium, 4/2014).** TWA: 5 mg/m³ 8 hours. Form: mist STEL: 10 mg/m³ 15 minutes. Form: mist
Bulgaria	
2-butoxyethanol	**Minister of Labour and Social Affairs and the Minister of Health (Bulgaria, 1/2012). Absorbed through skin.** Limit value 8 hours: 98 mg/m³ 8 hours. Limit value 15 min: 246 mg/m³ 15 minutes. Limit value 15 min: 50 ppm 15 minutes. Limit value 8 hours: 20 ppm 8 hours.
Paraffin Oil	**Minister of Labour and Social Affairs and the Minister of Health (Bulgaria, 1/2012).** Limit value 8 hours: 5 mg/m³ 8 hours.
m-phenoxybenzyl 3-(2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate	**Minister of Labour and Social Affairs and the Minister of Health (Bulgaria, 8/2007).** Limit value 8 hours: 5 mg/m³ 8 hours.
Croatia	
2-butoxyethanol	**Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 6/2013). Absorbed through skin.** STELV: 246 mg/m³ 15 minutes. STELV: 50 ppm 15 minutes. ELV: 98 mg/m³ 8 hours. ELV: 20 ppm 8 hours.
Czech Republic	
2-butoxyethanol	**Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 1/2013). 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	**Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 1/2013).** TWA: 5 mg/m³ 8 hours. Form: aerosol STEL: 10 mg/m³ 15 minutes. Form: aerosol
Denmark	

SECTION 8: Exposure controls/personal protection

2-butoxyethanol	**Working Environment Authority (Denmark, 10/2012). Absorbed through skin.** TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours.
Paraffin Oil	**Working Environment Authority (Denmark, 10/2012).** TWA: 1 mg/m³ 8 hours. Form: mist and particles
Estonia	
2-butoxyethanol	**Occupational exposure limits, Regulation No. 293 (Estonia, 1/2008). 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	**Institute of Occupational Health, Ministry of Social Affairs (Finland, 3/2014). 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.
France	
2-butoxyethanol	**Ministry of Labor (France, 7/2012). Absorbed through skin. Notes: Labour Act , Art 4412-149 (Regulatory binding exposure limits)** TWA: 10 ppm 8 hours. TWA: 49 mg/m³ 8 hours. STEL: 246 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.
Germany	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	**DFG MAC-values list (Germany, 7/2013).** TWA: 50 ppm 8 hours. TWA: 300 mg/m³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. PEAK: 600 mg/m³, 4 times per shift, 15 minutes.
2-butoxyethanol	**TRGS 900 OEL (Germany, 3/2015). Absorbed through skin.** TWA: 49 mg/m³ 8 hours. PEAK: 196 mg/m³ 15 minutes. TWA: 10 ppm 8 hours. PEAK: 40 ppm 15 minutes. **DFG MAC-values list (Germany, 7/2015). Absorbed through skin.** TWA: 10 ppm 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes. TWA: 49 mg/m³ 8 hours. PEAK: 98 mg/m³, 4 times per shift, 15 minutes.
Paraffin Oil	**DFG MAC-values list (Germany, 7/2015).** PEAK: 20 mg/m³, 4 times per shift, 15 minutes. Form: respirable fraction TWA: 5 mg/m³ 8 hours. Form: respirable fraction
3-iodo-2-propynyl butylcarbamate	**DFG MAC-values list (Germany, 7/2018). Skin sensitizer.** PEAK: 0.116 mg/m³, 4 times per shift, 15 minutes. PEAK: 0.01 ppm, 4 times per shift, 15 minutes. TWA: 0.058 mg/m³ 8 hours. TWA: 0.005 ppm 8 hours. **TRGS 900 OEL (Germany, 6/2018). Skin sensitizer.** PEAK: 0.116 mg/m³ 15 minutes. PEAK: 0.01 ppm 15 minutes. TWA: 0.058 mg/m³ 8 hours. TWA: 0.005 ppm 8 hours.
Greece	

SECTION 8: Exposure controls/personal protection

2-butoxyethanol	**Ministry of Labour and Social Affairs (Greece, 2/2012). Absorbed through skin.** TWA: 25 ppm 8 hours. TWA: 120 mg/m³ 8 hours.
Paraffin Oil	**Ministry of Labour and Social Affairs (Greece, 2/2012).** TWA: 5 mg/m³ 8 hours.
Hungary	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	**25/2000. (IX.30) Ministry of Health and Ministry of Social and Family Affairs Joint Decree (Hungary).** TWA: 5 mg/m³ Form: Mist
2-butoxyethanol	**25/2000. (IX.30) Ministry of Health and Ministry of Social and Family Affairs Joint Decree (Hungary, 12/2011). Absorbed through skin.** TWA: 98 mg/m³ 8 hours. PEAK: 246 mg/m³ 15 minutes.
Paraffin Oil	**25/2000. (IX.30) Ministry of Health and Ministry of Social and Family Affairs Joint Decree (Hungary, 12/2011).** CEIL: 5 mg/m³ Form: mist
Ireland	
2-butoxyethanol	**NAOSH (Ireland, 12/2011). 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, 12/2011).** OELV-8hr: 5 ppm 8 hours. Form: Inhalable fraction
Italy	
2-butoxyethanol	**Ministry of Labour and Social Policy (Italy, 10/2013). Absorbed through skin.** 8 hours: 20 ppm 8 hours. 8 hours: 98 mg/m³ 8 hours. Short Term: 50 ppm 15 minutes. Short Term: 246 mg/m³ 15 minutes.
Latvia	
2-butoxyethanol	**Ministers Cabinet Regulations Nr.325 - AER (Latvia, 6/2015). 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	**Lithuanian Hygiene Standard HN 23 (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	**Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2014). Absorbed through skin.** OEL, 8-h TWA: 100 mg/m³ 8 hours. STEL,15-min: 246 mg/m³ 15 minutes.
Paraffin Oil	**Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2014).** OEL, 8-h TWA: 5 mg/m³ 8 hours. Form: mist
Norway	

SECTION 8: Exposure controls/personal protection

2-butoxyethanol	**FOR-2011-12-06-1358 (Norway, 6/2015). Absorbed through skin.** TWA: 10 ppm 8 hours. TWA: 50 mg/m³ 8 hours.
Paraffin Oil	**FOR-2011-12-06-1358 (Norway, 6/2015).** TWA: 1 mg/m³ 8 hours. Form: mist and particles TWA: 50 mg/m³ 8 hours. Form: vapor
Poland	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	**Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (J of Laws 2018, item 1286) (Poland, 12/2011).** STEL: 900 mg/m³ 15 minutes. TWA: 300 mg/m³ 8 hours.
2-butoxyethanol	**Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (J of Laws 2018, item 1286) (Poland, 6/2014).** TWA: 98 mg/m³ 8 hours. STEL: 200 mg/m³ 15 minutes.
Paraffin Oil	**Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (J of Laws 2018, item 1286) (Poland, 6/2014).** TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction
Portugal	
2-butoxyethanol	**Portuguese Institute of Quality (Portugal, 11/2014).** TWA: 20 ppm 8 hours.
Paraffin Oil	**Portuguese Institute of Quality (Portugal, 11/2014).** TWA: 5 mg/m³ 8 hours. Form: Only aerosol STEL: 10 mg/m³ 15 minutes. Form: Only aerosol
Romania	
2-butoxyethanol	**HG 1218/2006 with subsequent modifications and additions (Romania, 1/2012). 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	**HG 1218/2006 with subsequent modifications and additions (Romania, 1/2012).** VLA: 5 mg/m³ 8 hours. Short term: 10 mg/m³ 15 minutes.
Slovakia	
2-butoxyethanol	**Government regulation SR c. 356/2006 (Slovakia, 12/2011). 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	**Government regulation SR c. 356/2006 (Slovakia, 12/2011).** TWA: 1 mg/m³, (Mineral oils) 8 hours. Form: liquid aerosol, fumes TWA: 5 ppm, (Mineral oils) 8 hours. Form: liquid aerosol, fumes STEL: 3 mg/m³, (Mineral oils) 15 minutes. Form: liquid aerosol, fumes STEL: 15 ppm, (Mineral oils) 15 minutes. Form: liquid aerosol, fumes
Slovenia	

SECTION 8: Exposure controls/personal protection

2-butoxyethanol	**Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 6/2015). Absorbed through skin.** TWA: 98 mg/m³ 8 hours. TWA: 20 ppm 8 hours. KTV: 245 mg/m³, 4 times per shift, 15 minutes. KTV: 50 ppm, 4 times per shift, 15 minutes.
Spain	
2-butoxyethanol	**National institute of occupational safety and health (Spain, 1/2015). 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	**National institute of occupational safety and health (Spain, 1/2015).** TWA: 5 mg/m³ 8 hours. Form: mist STEL: 10 mg/m³ 15 minutes. Form: mist
Sweden	
2-butoxyethanol	**Work environment authority Regulation 2018:1 (Sweden, 12/2011). 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	**Work environment authority Regulation 2018:1 (Sweden, 12/2011).** TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume
Switzerland	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	**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, 1/2015). 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.
3-iodo-2-propynyl butylcarbamate	**SUVA (Switzerland, 1/2018). Skin sensitizer.** STEL: 0.24 mg/m³ 15 minutes. Form: vapour and aerosols STEL: 0.02 ppm 15 minutes. Form: vapour and aerosols TWA: 0.01 ppm 8 hours. Form: vapour and aerosols TWA: 0.12 mg/m³ 8 hours. Form: vapour and aerosols
Turkey	
2-butoxyethanol	**TR ISGGM OEL (Turkey, 12/2013). 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	**ACGIH TLV (United States, 3/2015).** TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction
United Kingdom (UK)	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	**EH40/2005 WELs (United Kingdom (UK)).** TWA: 1200 mg/m³ Form: Vapor
2-butoxyethanol	**EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.** STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours.

SECTION 8: Exposure controls/personal protection

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

Product/ingredient name	Type	Exposure	Value	Population	Effects
2-butoxyethanol	DNEL	Long term Oral	3.2 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Oral	26.7 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Dermal	89 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Dermal	125 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	75 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	38 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Inhalation	123 mg/m³	General population [Consumers]	Local
	DNEL	Short term Inhalation	1091 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	246 mg/m³	Workers	Local
	DNEL	Long term Inhalation	59 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	98 mg/m³	Workers	Systemic

Predicted effect concentrations

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
2-butoxyethanol	-	Fresh water	8.8 mg/l	-
	-	Marine water	0.88 mg/l	-
	-	Fresh water sediment	34.6 mg/l	-
	-	Marine water sediment	3.46 mg/l	-
	-	Sewage Treatment Plant	463 mg/l	-
	-	Soil	2.33 mg/kg	-

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

SECTION 8: Exposure controls/personal protection

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: chemical splash goggles.

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. Wear suitable gloves tested to EN374. Cat. 3

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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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 : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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	: Clear. Colorless.
Odor	: Characteristic.
Odor threshold	: Not available.
pH	: 7 [Conc. (% w/w): 1%]
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Closed cup: 57.5°C [Pensky-Martens.]
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.

SECTION 9: Physical and chemical properties

Vapor density	: Not available.
Relative density	: 0.8
Solubility(ies)	: Not available.
Dispersibility properties	: Not available.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: 148°C
Decomposition temperature	: Not available.
Viscosity	: Dynamic (room temperature): 1.5 mPa·s Kinematic (room temperature): 0.019 cm^2/s Kinematic (40°C): 0.014 cm^2/s
Explosive properties	: Not available.
Oxidizing properties	: Not an oxidizer

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.

10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials : Reactive or incompatible with the following materials:
oxidizing materials

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
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	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 Gas.	Rat	450 ppm	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	-
	LD50 Oral	Rat	2645 mg/kg	-
3-iodo-2-propynyl butylcarbamate	LC50 Inhalation Dusts and mists	Rat	0.763 g/m^3	4 hours Aerosol.
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat - Female	1056 mg/kg	-

SECTION 11: Toxicological information

	LD50 Oral	Rat - Male	1795 mg/kg	-
permethrin (ISO)	LC50 Inhalation Dusts and mists	Rat	>23.5 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Dermal	Rat	>1750 mg/kg	-
	LD50 Oral	Rat	383 mg/kg	-
	LD50 Oral	Rat	480 mg/kg	-
	LD50 Oral	Rat	480 mg/kg	-
propiconazole (ISO)	LC50 Inhalation Dusts and mists	Rat	1264 mg/m³	4 hours
	LD50 Dermal	Rat	>4 g/kg	-
	LD50 Oral	Rat	1517 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Route	ATE value
Oral	21666.67 mg/kg
Dermal	18333.33 mg/kg
Inhalation (dusts and mists)	18.24 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
3-iodo-2-propynyl butylcarbamate	Eyes - Severe irritant	Rabbit	-	-	-
poly (ethyleneglycol) dimethacrylate	Skin - Irritant	Rabbit	-	-	-

Conclusion/Summary : Not available.

Sensitizer

Product/ingredient name	Route of exposure	Species	Result
2-butoxyethanol	skin	Guinea pig	Not sensitizing
poly (ethyleneglycol) dimethacrylate	skin	Guinea pig	Not sensitizing
m-phenoxybenzyl 3-(2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate	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

SECTION 11: Toxicological information

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	larynx

Aspiration hazard

Product/ingredient name	Result
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	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 : Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

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 : Adverse symptoms may include the following:
pain or irritation
watering
redness

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.

SECTION 11: Toxicological information

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	-
	Sub-chronic NOAEL Inhalation Vapor	Rat	1.16 mg/m³	90 days
m-phenoxybenzyl 3-(2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate	Sub-chronic NOAEL Oral	Dog	5 mg/kg	1 years
propiconazole (ISO)	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.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	Acute LC50 >100 mg/l	Algae	96 hours
	Acute LC50 >100 mg/l	Daphnia	96 hours
	Acute LC50 >100 mg/l	Fish	96 hours
2-butoxyethanol	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
Oxirane, 2-methyl-, polymer with oxirane, mono (2-ethylhexyl) ether	Acute LC50 20 mg/l	Fish - Brachydanio rerio	96 hours
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
	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
permethrin (ISO)	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
	Acute LC50 0.548 ppb Marine water	Crustaceans - Palaemonetes	48 hours

SECTION 12: Ecological information

		pugio	
	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
propiconazole (ISO)	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
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	80 % - Readily - 28 days	-	-
2-butoxyethanol	301B Ready Biodegradability - CO_2 Evolution Test	90 % - Readily - 28 days	-	-
	-	18.3 % - Readily - 3 days	-	-
3-iodo-2-propynyl butylcarbamate	OECD 301F	25 % - 28 days	1.03 gO_2/g ThOD	30 mg/l Activated sludge
poly (ethyleneglycol) dimethacrylate	-	14 to 21 % - 28 days	-	-

Conclusion/Summary **:** Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	-	Not readily
3-iodo-2-propynyl butylcarbamate	-	-	Readily
permethrin (ISO)	-	-	Not readily
propiconazole (ISO)	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	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* 15 01 10*	other wood preservatives containing hazardous substances 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics, permethrin (ISO))	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics, permethrin (ISO))	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics, permethrin (ISO))
14.3 Transport hazard class(es)	3 F1 	3 	3 
14.4 Packing group	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
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	**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	**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

SECTION 14: Transport information

	spillage.	spillage.	spillage.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. **Tunnel code** (D/E)	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. **Emergency schedules** F-E, S-E	The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.7 Transport in bulk according to IMO instruments : 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.

Other EU regulations

Black List Chemicals : Not listed

Priority List Chemicals : Not determined

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
propiconazole (ISO)	-	-	Repr. 1B, H360D (Unborn child)	-

SECTION 15: Regulatory information

Registry No : EL ТП8-0122

Hazard class for water : 2 AwSV Anlage 1, Nummer 5.3

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
PBT = Persistent, Bioaccumulative and Toxic
vPvB = Very Persistent and Very Bioaccumulative
LD50 = Median lethal dose
LC50 = Median lethal concentration
EC50 = Half maximal effective concentration
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG = International Maritime Dangerous Goods
IATA = International Air Transport Association

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Eye Irrit. 2, H319	Regulatory data
Asp. Tox. 1, H304	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H statements :
H226 Flammable liquid and vapor.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful 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.

SECTION 16: Other information

H360D May damage the unborn child.
H372 (inhalation) 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, H331	ACUTE TOXICITY (inhalation) - Category 3
Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Acute Tox. 4, H312	ACUTE TOXICITY (dermal) - 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
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
Repr. 1B, H360D	TOXIC TO REPRODUCTION (Unborn child) - Category 1B
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1
STOT RE 1, H372 (inhalation)	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 1

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