



MATERIAL SAFETY DATA SHEET

27th October, 2016

SUPERIOR CLEAR WOOD PRESERVER

SECTION 1: IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY

- 1.1 Product Identifier**
Product name: Superior Clear Wood Preserver/Woodworm Killer
Hazardous ingredients: Contains: propiconazole (ISO), 3-iodoprop-2-ynyl butylcarbamate, permethrin (ISO)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Suitable uses: wood preservative
- 1.3 Details of the supplier of the safety data sheet**
Supplier : R K & J Jones Limited
 Southery Road, Feltwell,
 Thetford, Norfolk, IP26 4EH. UK
- Emergency tel. number** : 01842 828101/01223

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification Aquatic Acute 1, H400
 Aquatic Chronic 1, H410

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

Classification N; R50/53
Environmental hazards Very toxic to aquatic organisms, may cause long term Adverse effects in the aquatic environment.

2.2 Label elements
Hazard pictograms



Signal word

Warning

Contains: propiconazole (ISO), 3-iodoprop-2-ynyl butyl carbamate, permethrin (ISO)

Hazard statements

H410- Very toxic to aquatic life with long lasting effects.

Additional warning phrases

Contains 3-iodo-2-propynyl butylcarbamate, propiconazole (ISO) permethrin (ISO) and 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

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	Collect spillage
Storage	Not applicable
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 Other hazards**Other hazards which do not result in classification**

None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
dipropylene glycol monomethyl ether (isomer mixture)	REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8	3 - 4	Not classified.	Not classified.	[2]
propiconazole (ISO)	EC: 262-104-4 CAS: 60207-90-1 Index: 613-205-00-0	< 1	Xn; R22 R43 N; R50/53	Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
3-iodoprop-2-ynyl butylcarbamate	EC: 259-627-5 CAS: 55406-53-6	< 1	Xn; R20/22 Xi; R41, R37 R43 N; R50	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 (Respiratory tract irritation) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
zirkonium carboxylate	EC: 245-018-1 CAS: 22464-99-9	< 0.2	Repr. Cat. 3; R63	Repr. 2, H361d (Unborn child)	[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]
2-butoxyethanol	REACH #: 02-2119764899-11 EC: 203-905-0 CAS: 111-78-2 Index: 603-014-00-0	< 1	Xn; R20/21/22 Xi; R36/38	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1] [2]
2-(2-butoxyethoxy) ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	< 1	Xi; R36	Eye Irrit. 2, H319	[1] [2]

Occupational exposure limits, if available, are listed in Section 8.

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. 19-7/2006, Annex XIII
4. Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006 Annex XIII
5. Substance of equivalent concern

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation	Move exposed person to fresh air. Keep person warm and at rest. 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.
Ingestion	Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is unconscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting can be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. 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.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
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 if Irritation occurs.

4.2 Most important symptoms and effects, both acute and delayed. See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of any immediate medical attention and special treatment needed. See Section 11 for more detailed information on health effects and symptoms.

SECTION 5: FIRE FIGHTING MEASURES**5.1 Extinguishing Media – Suitable extinguishing media**

In case of fire, use water spray (fog), foam, dry chemical or CO²

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.

Hazardous combustion products.

Decomposition products may include the following materials:
Carbon oxides.

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. This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions,
Protective equipment and emergency procedures**

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment (see Section 8)

6.2 Environmental precautions

Avoid dispersal of spilt 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) Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

6.3 Methods and material 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 or 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. Prevent entry into sewers, water courses, basements or confined areas. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Note: See Section 1 for emergency contact information and Section 13 for waste disposal. Contaminated absorbent material may pose the same hazard as the Spilt 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**7.1 Precautions for safe handling**

Put on appropriate personal protective equipment (see Section 8)
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. Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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.

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 0 to 30°C (32 to 86°F)
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. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

Seveso II Directive – Reporting thresholds (in tonnes)**Danger criteria**

Category	Notification and MAPP threshold	Safety report threshold
E1: Hazardous to the aquatic environment – Acute 1 or Chronic 1 c9i: very toxic for the environment	100 100	200 200

7.3 Specific end use(s)

Recommendations Not available

Industrial sector specific Solutions Not available

Remarks Sensitive to light

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Control parameters****Exposure limit values**

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
dipropylene glycol monomethyl ether (isomer mixture)	EU OEL (Europe, 12/2009). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 308 mg/m ³ 8 hours.
2-butoxyethanol	EU OEL (Europe, 12/2009). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
2-(2-butoxyethoxy)ethanol	EU OEL (Europe, 12/2009). TWA: 67,5 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. STEL: 101,2 mg/m ³ 15 minutes. STEL: 15 ppm 15 minutes.

Ingredient name**Occupational exposure limits**

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.

8.2 Exposure controls**Risk management measures****Occupational exposure controls****Technical measures**

If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protection measures**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. Recommended: Full mask with type ABEK filter.

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. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations
Recommended: (<1 hour) Butyl rubber – IIR, Nitrile rubber – NBR, Polyvinyl chloride – PVC

Eye 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. Recommended: safety glasses with side shields.

Skin 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. Recommended: Wear protective clothing.

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.

Environmental exposure controls

Technical measures

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****General Information****Appearance**

Physical state	Liquid
Colour	White to yellowish
Odour	Characteristic. [Slight]

Important health, safety and environmental information

ph	8,.9 [Conc. (% w/w): 1%]
Flash point	Closed cup: >100°C (>212°F)
Density	1.009 kg/L (20°C)
Solubility	Miscible in water
Ignition temperature	>600°C
Decomposition temperature	Not available

9.2 Other information

Remarks	Surface tension: 52mN/m (0.1%)
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 release to the environment
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****Potential acute health effects**

Inhalation	No known significant effects or critical hazards
Ingestion	No known significant effects or critical hazards
Skin contact	No known significant effects or critical hazards
Eye contact	No known significant effects or critical hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Test
dipropylene glycol monomethyl ether (isomer mixture)	LD50 Oral	- Rat	>50000 mg/kg	-	OECD 401 Acute Oral Toxicity
propiconazole (ISO)	LD50 Oral	- Rat	1517 mg/kg	-	-
3-iodoprop-2-ynyl butylcarbamate	LD50	- Rat	300 to 500 Mg/kg	-	-
Permethrin (ISO)	LD50 Oral	- Rat	480 mg/kg	-	-
Dipropylene glycol Monomethyl ether (isomer mixture)	LD50 Dermal	- Rat- Male	9510 mg/kg	-	OECD 402 Acute Dermal Toxicity
Propiconazole (ISO)	LD50 Dermal	- Rat	>4000 mg/kg	-	-
3-iodoprop-2-ynyl butylcarbamate	LD50 Dermal	- Rat	>2000 mg/kg	-	-
Permethrin (ISO)	LD50 Dermal	- Rat	>2000 mg/kg	-	-
Dipropylene glycol Monomethyl ether (isomer mixture)	LC50 Inhalation Vapour	- Rat	275 ppm	7 hours	OECD 403 Acute Inhalation Toxicity
Propiconazole (ISO)	LC50 Inhalation Dusts & mists	- Rat	>5800 mg/m ³	4 hours	403 Acute Inhalation Toxicity
Permethrin (ISO)	LC50 Inhalation Dusts & Mists	- Rat	>23.5 mg/l	4 hours	-

Acute toxicity estimates

Route	ATE value (Acute Toxicity Estimates)
Not available	

Irritation/Corrosion**Product/ingredient Name**

Product/ingredient Name	Result	Species	Score	Exposure	Test
Dipropylene glycol Monomethyl ether (isomer mixture)	Skin - Erythema/ Eschar	Rabbit	0	2 hours	OECD 404 Acute Dermal Irritation/ Corrosion
	Skin-Oedema	Rabbit	0	2 hours	OECD 404 Acute Dermal Irritation/ Corrosion

Skin

propiconazole (ISO): Slight irritant
3-iodoprop-2-ynyl butylcarbamate: Non-irritating

Eyes

dipropylene glycol monomethyl ether (isomer mixture): Non-irritating
Propiconazole (ISO): Slight irritant
3-iodoprop-2-ynyl butylcarbamate: risk of serious damage to eyes.

Sensitiser**Product/ingredient Name**

Product/ingredient Name	Route of Exposure	Species	Result	Test Description
Propiconazole (ISO)	skin	Guinea pig	Sensitising	-
3-iodoprop-2-ynyl butylcarbamate	skin	Guinea pig	Sensitising	-
Permethrin (ISO)	skin	Guinea pig	Sensitising	(OECD Guideline 406); GPMT according to MAGNUSSON-KLIGMAN

Skin

dipropylene glycol monomethyl ether (isomer mixture) : Not Sensitising.

Potential chronic health effects

Chronic toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
dipropylene glycol monomethyl ether (isomer mixture)	Sub-acute NOEL Oral	Rat - Male, Female	200 mg/kg	-	
	Sub-acute NOAEL Oral	Rat - Male, Female	1000 mg/kg	-	
	Sub-chronic NOAEL Dermal	Rabbit - Male, Female	2850 mg/kg bw/day	-	
	Sub-chronic NOAEL Inhalation Vapour	Rat - Male, Female	200 ppm	13 weeks; 6 hours per day 5 days per week	
	3-iodoprop-2-ynyl butylcarbamate	Chronic NOAEL Oral	Rat	20 mg/kg/d	2 years
	permethrin (ISO)	Sub-chronic NOAEL Oral	Dog	5 mg/kg	1 years

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
dipropylene glycol monomethyl ether (isomer mixture)	Negative - Oral - NOAEL	Rat - Male, Female	300 ppm	2 years; 6 hours per day 5 days per week

Mutagenicity

Product/ingredient name	Test	Experiment	Result
dipropylene glycol monomethyl ether (isomer mixture)	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Animal Metabolic activation: with and without	Negative

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
3-iodoprop-2-ynyl butylcarbamate	Category 3	Not applicable.	Respiratory tract irritation

Remarks

Permethrin (ISO): Carcinogenicity, Reproduction toxicity, Teratogenicity: No known significant effects or critical hazards. Not mutagenic in a standard battery of genetic toxicological tests.

3-iodoprop-2-ynyl butylcarbamate: Not mutagenic in a standard battery of genetic toxicological tests.

Propiconazole (ISO) : Not mutagenic in a standard battery of genetic toxicological tests. Animal testing did not show any carcinogenic effects.

SECTION 12 : ECOLOGICAL INFORMATION**12.1 Toxicity**

Product/ingredient name	Test	Result	Species	Exposure
dipropylene glycol monomethyl ether (isomer mixture)	OECD 201 Freshwater Alga and Cyanobacteria, Growth Inhibition Test	Acute EC50 >969 mg/l	Algae - Selenastrum capricornutum	96 hours
	OECD 202 <i>Daphnia</i> sp. Acute Immobilization Test	Acute LC50 1919 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 >1000 mg/l	Fish - <i>Poecilia reticulata</i>	96 hours
	OECD 201 Freshwater Alga and Cyanobacteria, Growth Inhibition Test	Chronic NOEC >969 mg/l	Algae - Selenastrum capricornutum	96 hours
propiconazole (ISO)	202 <i>Daphnia</i> sp. Acute Immobilization Test	Acute EC50 10,2 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	201 Alga, Growth Inhibition Test	Acute EC50 9 mg/l	Algae - <i>Pseudokirchneriella subcapitata</i>	72 hours
	-	Acute EC50 0,51 mg/l	Crustaceans - <i>Mysidopsis bahia</i>	96 hours
3-iodoprop-2-ynyl butylcarbamate	203 Fish, Acute Toxicity Test	Acute LC50 4,3 mg/l	Fish - <i>Oncorhynchus mykiss</i>	96 hours
	-	Acute EC50 0,21 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	-	Acute EC50 44 mg/l	Bacteria - Activated sludge	3 hours
	-	Acute IC50 0,026 mg/l	Algae - <i>Desmodesmus subspicatus</i>	72 hours
	-	Acute LC50 0,43 mg/l	Fish - <i>Danio rerio</i>	96 hours
Product/ingredient name	Test	Result	Species	Exposure
permethrin (ISO)	-	Acute EC50 0,00127 mg/l	Daphnia	48 hours
	-	Acute IC50 >1,13 mg/l	Algae - <i>Pseudokirchneriella subcapitata</i>	72 hours
	-	Acute LC50 0,0051 mg/l	Fish - <i>Oncorhynchus mykiss</i>	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

<u>Product/ingredient name</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>
(2-methoxymethylethoxy) propanol	-	-	Readily
1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole	Fresh water 28 to 64 days	-	Not readily
3-iodo-2-propynyl butylcarbamate	-	-	Readily
m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	-	-	Not readily

<u>Product/ingredient name</u>	<u>Rate of degradation/elimination (%)</u>	<u>Period (days)</u>	<u>Test</u>
dipropylene glycol monomethyl ether (isomer mixture)	75 %	28 days	OECD 301F Ready Biodegradability - Manometric Respirometry Test

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential**Bioaccumulative potential**

<u>Product/ingredient name</u>	<u>LogP_{ow}</u>	<u>BCF</u>	<u>Potential</u>
propiconazole (ISO)	3,72	-	low
3-iodoprop-2-ynyl butylcarbamate	2,8	-	low
permethrin (ISO)	6,1	570	high

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

Other adverse effects : Not available.

AOX : The product contains organically bound halogens and can contribute to the AOX value in waste water.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste Treatment methods****Product****Methods of disposal**

Examine possibilities for re-utilisation. Product residues and uncleaned Empty containers should be packaged, sealed, labelled, and disposed of or recycled according to relevant national and local regulations. Where large quantities are concerned, consult the supplier. When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues. For disposal within the EU, the appropriate code according to the European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste List (EWL)

Hazardous waste

The classification of the product may meet the criteria for a hazardous waste.

Packaging**Methods of disposal**

The generation of waste should be avoided or minimised 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14 : TRANSPORT INFORMATION

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN)
14.3 Transport hazard class(es)/ Marks	9 	9 	9 	9 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes	Yes
14.6 Special precautions for user/Additional information	<u>Hazard identification number</u> 90	<u>Hazard identification number</u> 90	<u>Emergency schedules (EmS)</u> F-A, S-F	<u>Passenger aircraft</u> 964: 450 L <u>Cargo aircraft</u> 964: 450 L

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code - Not available

Hazard notes

Environmentally hazardous substance. Avoid temperatures below 0°C. Avoid heat above +30°C. Keep separated from foodstuffs

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 authorisation****Annex XIV**

None of the components are listed.

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.

Product/ingredient	EC number	CAS no.	Restriction
2-(2-butoxyethoxy) ethanol	203-961-6	112-34-5	55

Other EU regulations**Seveso III Directive**

This product is controlled under the Seveso III Directive

Danger criteria

Category
E1: Hazardous to the aquatic environment – Acute 1 or Chronic 1 C9i: Very toxic for the environment

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16 : OTHER HEALTH AND SAFETY INFORMATION**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
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number
 vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Aquatic Acute 1, H400	Calculation Method
Aquatic Chronic 1, H410	Calculation Method

Full text of abbreviated**H statements**

H302 Harmful if swallowed
 H317 May cause an allergic reaction to skin
 H318 Causes serious eye damage
 H332 Harmful if inhaled
 H335 May cause respiratory irritation. (Respiratory tract irritation)
 H361d Suspected of damaging the unborn child
 H400 Very toxic to aquatic life
 H410 Very toxic to aquatic life with long lasting effects

Full text of classifications [CLP/GHS]

Acute Tox. 4, ACUTE TOXICITY (oral)-Category 4 H302
 Acute Tox. 4 ACUTE TOXICITY (inhalation)-Category 4 H332
 Aquatic Acute 1-ACUTE AQUATIC HAZARD-Category 1 H400
 Aquatic Chronic 1-LONG TERM AQUATIC HAZARD-Category 1 H410
 Eye Dam.1, H318 SERIOUS EYE DAMAGE/EYE IRRITATION – Category 1
 Repr.2, H361d TOXIC TO REPRODUCTION (Unborn child)- Category 2
 Skin Sens.1, SKIN SENSITISATION – Category 1 H317
 STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) – Category 3

Full text of R-phrases referred to in sections 2 and 3

R22 Harmful if swallowed
R20/22 Harmful by inhalation and if swallowed.
R41 Risk of serious damage to eyes
R37 Irritating to respiratory system
R38 Irritating to skin
R43 May cause sensitisation by skin contact
R50 Very toxic to aquatic organisms
R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Revision Date: 27/10/2016
Date of previous issue None previous

Disclaimer:

If this product is re-distributed and re-formulated for sale, details of its hazards and recommended methods for safe handling must be passed to customers. Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by a work activity using this product is undertaken before this product is used.

Note: The information contained in this Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other Health & Safety Legislation (e.g. the Health and Safety at Work Act,1974;the control of Substances Hazardous to Health Regulations,1988). The data given here is based on current knowledge and experience. The purpose of this data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.

Notice to reader

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (Reach)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.