

**1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1	Product Name Product Number	Bi-OO-cyst DP 1147
1.2	Identification of Uses	Disinfectant – virucidal and also effective against endoparasites especially OOCysts.
1.3	Supplier	Biolink Limited. Halifax Way Pocklington Ind. Est Pocklington York YO42 1NR
	Telephone No.	44-(0)- 1759 303444
	Fax No.	44-(0)- 1759 303158
	Email - Technical	<a href="mailto:paul@biolinklimited.co.uk">paul@biolinklimited.co.uk</a>
	Sales	<a href="mailto:info@biolinklimited.co.uk">info@biolinklimited.co.uk</a>
1.4	Emergency Phone	44-(0)- 1280 841086 (office hours only)

**2 - HAZARDS IDENTIFICATION**

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE  
 Harmful by Inhalation, in contact with skin and if swallowed, Causes burns, Very toxic to the aquatic environment

2.2 LABEL ELEMENTS

Hazard symbol(s)



Corrosive



Harmful



Dangerous for the environment

R-phrases(s)

R 20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R 34	Causes burns
R 43	May cause sensitisation by skin contact
R50	Very toxic to the aquatic environment.

S-phrases(s)

S (1/2)	Keep locked up and out of reach of children.
S 13	Keep away from food, drink and animal feeding stuffs.
S 36/37/39	Wear suitable protective clothing, gloves and eye face protection.
S 23	Do not breathe vapour/spray.
S 24/25	Avoid contact with skin and eyes.
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 28	After contact with skin wash immediately with plenty of water.

S 62	If swallowed do not induce vomiting; seek medical advice immediately and show this container or label.
S 61	Avoid release to the environment. Refer to safety data sheet.
S 45	In case of accident, or if you feel unwell, seek medical advice immediately and show the label where possible.

### 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Ingredient Name	Percent	CAS No.	EC No.	Index No.
Butyl Glycol Ether Xn, Xi, R20/21/22 - R36/38	>10% <15%	111-76-2	203-905-0	602-014-00-0
Acetic Acid 80% C, R10 - R25	>17% <26%	64-19-7	200-580-7	607-002-00-6
N-alkylbenzenesulphonic Acid C, Xn R22 - 34	>20% <27 %	85536-14-7	287-494-3	-
4-chloro-3methylphenol Xn, Xi, N, R21/22 -41 - 43 - 50	>20% <27%	59-50-7	200-431-6	604-014-00-3

See Section 16, For the full text of R-Phrase mentioned in this Section.

### 4 - FIRST AID MEASURES

**GENERAL ADVICE**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**AFTER INHALATION**

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician if symptoms persist.

**AFTER SKIN CONTACT**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician if symptoms persist.

**AFTER EYE CONTACT**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**AFTER INGESTION**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

None

### 5 - FIRE FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS**

Wear self-contained breathing apparatus for fire fighting if necessary.

**SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

Combustion products: Toxic fumes of sulphur, phenol and chlorine. Oxides of carbon.

**SPECIFIC METHOD(S) OF FIRE FIGHTING**

Use water spray to cool unopened containers.

**6 - ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

**ENVIRONMENTAL PRECAUTIONS**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**7 - HANDLING AND STORAGE**

**PRECAUTIONS FOR SAFE HANDLING**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking.

**CONDITIONS FOR SAFE STORAGE**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Protect from Strong light. Protect from frost. Handle and open container with care.

**8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMITS**

Component	CAS-No.	Value	Control Parameters	Basis
Acetic Acid	64-19-7	TWA	10ppm 25 mg/m3	91/322/EEC
Butyl Glycol Ether	111-76-2	STEL	50ppm	UK. EH40 WEL - Workplace Exposure Limits
		TWA	25ppm	UK. EH40 WEL - Workplace Exposure Limits
		STEL	50ppm 246mg/m3	2000/39/EC
		TWA	20ppm 98mg/m3	2000/39/EC

**APPROPRIATE ENGINEERING CONTROLS**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**PERSONAL PROTECTIVE EQUIPMENT**

**Eye/face protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**

PVC apron or Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested

**9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance Physical State:	Liquid	
Colour:	Greenish brown	
Property	Value	Temperature or Pressure & comments
pH	N/A	
BP/BP Range	>100°C	
MP/MP Range	<0°C	
Flash Point	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	N/A	
Vapour Pressure	N/A	
SG/Density	1.08 g/ml	
Partition Coefficient	N/A	
Viscosity	N/A	
Vapour Density	N/A	
Saturated Vapor Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp.	N/A	
Solvent Content	N/A	
Water Content	N/A	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	Water: Complete	

**10 - STABILITY AND REACTIVITY**

**CHEMICAL STABILITY**

Stable under normal conditions of storage.

**CONDITIONS TO AVOID**

High temperatures

**MATERIALS TO AVOID**

Strong acids

**HAZARDOUS DECOMPOSITION PRODUCTS**

Toxic fumes of sulphur, phenol and chlorine. Oxides of carbon.

**11 - TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY**

LD50 Oral - rat - 470 mg/kg (Butyl Glycol Ether)  
 LC50 Inhalation - rat - 4 h - 450 ppm Remarks: Behavioral:Ataxia. Nutritional and Gross Metabolic:Weight loss or decreased weight gain. (Butyl Glycol Ether)  
 LD50 Dermal - rabbit - 220 mg/kg (Butyl Glycol Ether)  
 LD50 Intraperitoneal - rat - 220 mg/kg (Butyl Glycol Ether)  
 LD50 Intravenous - rat - 307 mg/kg (Butyl Glycol Ether)  
 LD50 Oral - rat - 3,310 mg/kg (Acetic Acid)  
 LC50 Inhalation - mouse - 1 h - 5620 ppm Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Conjunctive irritation. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other. Blood:Other changes. (Acetic Acid)  
 LD50 Dermal - rabbit - 1,112 mg/kg (Acetic Acid)  
 LD50 Oral - rat - 1,830 mg/kg (4-chloro-3methylphenol)

**IRRITATION AND CORROSION**

Skin - rabbit - Open irritation test (Butyl Glycol Ether)  
 Eyes - rabbit - Moderate eye irritation - 24 h (Butyl Glycol Ether)  
 Skin - rabbit - Mild skin irritation - 24 h (Acetic Acid)  
 Eyes - rabbit - Corrosive to eyes (Acetic Acid)

**SENSITISATION**

May cause sensitization by skin contact. (4-chloro-3methylphenol)  
 The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modelling.

**CHRONIC EXPOSURE**

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Butyl Glycol Ether)

**POTENTIAL HEALTH EFFECTS**

Inhalation: Harmful by inhalation, may cause burns  
 Skin: May cause sensitisation, may cause burns  
 Eyes: Sever irritation, may cause burns  
 Ingestion: Harmful if swallowed, may cause burns

**12 - ECOLOGICAL INFORMATION**

**TOXICITY**

Toxicity to fish  
 LC50 - Pimephales promelas (fathead minnow) - 79 - 88 mg/l - 96 h (Acetic Acid)  
 LC50 - Lepomis macrochirus - 75 mg/l - 96 h (Acetic Acid)  
 LC50 - other fish - 220 mg/l - 96 h (Butyl Glycol Ether)  
 LC50 - Oncorhynchus mykiss (rainbow trout) - 0.92 mg/l - 96.0 h (4-chloro-3methylphenol)

LC50 - Pimephales promelas (fathead minnow) - 4.2 - 8.9 mg/l - 96.0 h(4-chloro-3methylphenol)

Toxicity to daphnia and other aquatic invertebrates.	EC50 - Daphnia magna (Water flea) - 65 mg/l - 48 h (Acetic Acid)
	EC50 - Daphnia magna (Water flea) - 1,815 mg/l - 24 h (Butyl Glycol Ether)
	EC50 - Daphnia magna (Water flea) - 4.40 - 5.30 mg/l - 24 h (4-chloro-3methylphenol)

**PERSISTENCE AND DEGRADABILITY**

Biodegradability aerobic - Exposure time 30 d Result: 99 % - Readily biodegradable. (Acetic Acid)  
 OECD 301C Ready Biodegradability – Modified MITI test (I) 30 d Result >90% (4-chloro-3methylphenol)  
 Remarks: Expected to be biodegradable

**BIOACCUMULATIVE POTENTIAL**

no data available

**MOBILITY IN SOIL**

no data available

**RESULTS OF PBT AND vPvB ASSESSMENT**

no data available

**OTHER ADVERSE EFFECTS**

Very toxic to aquatic organisms.

Additional ecological information	no data available
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Biochemical Oxygen Demand (BOD)	880 mg/g (Acetic Acid)
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**13 - DISPOSAL CONSIDERATIONS**

**PRODUCT**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**CONTAMINATED PACKAGING**

Dispose of as unused product.

**14 - TRANSPORT INFORMATION**

**UN-NUMBER**

ADR/RID:	2922
IMDG:	2922
IATA:	2922

**UN PROPER SHIPPING NAME**

ADR/RID: corrosive liquid, toxic, n.o.s., (contains alkylsulphonic acid & chlorophenol)  
 IMDG corrosive liquid, toxic, n.o.s., (contains alkylsulphonic acid & chlorophenol)  
 IATA: corrosive liquid, toxic, n.o.s., (contains alkylsulphonic acid & chlorophenol)

**TRANSPORT HAZARD CLASS(ES)**

ADR/RID: 8 (6.1)  
 IMDG: 8 (6.1)  
 IATA: 8 (6.1)

**PACKAGING GROUP**

ADR/RID: III  
 IMDG: III  
 IATA: III

**ENVIRONMENTAL HAZARDS**

ADR/RID: yes  
 IMDG: Marine pollutant: yes  
 IATA: yes

**SPECIAL PRECAUTIONS FOR USERS**

no data available

**15 - REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**16 - OTHER INFORMATION**

Text of R-phrases mentioned in Section 3

C	Corrosive
Xn	Harmful
Xi	Irritant
N	Dangerous for the Environment
R10	Flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R21/22	Harmful in contact with skin and if swallowed
R22	Harmful if swallowed
R25	Toxic if swallowed
R34	Causes burns
R36/38	Irritating to eyes and skin
R41	Risk of serious damage to eyes
R43	May cause sensitisation by skin contact
R50	Very toxic to aquatic organisms

**FURTHER INFORMATION**

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