

SAFETY DATA SHEET

1. IDENTIFICATION

1.1. Substance:	BI-OO-CYST DP 1147
1.2 Use:	Disinfectant – virucidal and also effective against endoparasites especially Oocysts.
1.3. Supplier:	BIOLINK LIMITED HALIFAX WAY POCKLINGTON INDUSTRIAL ESTATE POCKLINGTON EAST YORKSHIRE YO42 1NR ENGLAND.
Emergency telephone:	01280 841085 (office hours only)
Fax:	01759 303158
e-mail:	paul@biolinklimited.co.uk (technical) info@biolinklimited.co.uk (sales)

2. HAZARDS IDENTIFICATION

Classification:	CORROSIVE.
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Adverse effects and symptoms relating to use and misuse.

Physicochemical	Harmful Corrosive liquid. Miscible with water.
Human health	Harmful. Can cause burns, will cause irritation.
Environmental	Very toxic to aquatic organisms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Cas No.	Classification	Content wt/wt	Risks
Butyl Glycol	203-905-0	111-76-2	Harmful	>10%, <15%	R20/21/22
Lactic acid 80%	201-196-2	79-33-4	Irritant	>17%, <26%	R36/38
N-alkylbenzenesulphonic acid	287-494-3	85536-14-7	Corrosive	>20%, <27%	R34, R22
4-chloro-3-methylphenol	200-431-6	59-50-7	Harmful	>20%, <27%	R21/22, R41, R43, R50

4. FIRST AID MEASURES

Immediate medical attention is required in the event of ingestion and/or eye contact.

Inhalation:	Remove to fresh air, keep warm and seek medical advice/assistance if any symptoms persist.
Skin contact:	Remove any contaminated clothing and wash with copious amounts of water and seek medical advice if any symptoms persist.
Eye contact	Flush eyes with copious amounts of water/eye wash for at least 15 minutes, and seek medical advice immediately.
Ingestion:	If swallowed wash out mouth with water provided person is conscious. Give water to drink, do not induce vomiting and seek medical advice immediately. Show the label.

Are any specific first aid means or equipment required at the workplace? Yes, Eye wash

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5. FIRE-FIGHTING MEASURES

General:	This product is not in itself flammable.
Suitable extinguishing media:	Fine Spray, Foam, Dry Agent, CO ₂
Special exposure hazards:	Combustion products: Toxic fumes of sulphur, phenol and chlorine. Oxides of carbon.
Special protective equipment for firefighters:	<u>Breathing Apparatus.</u> Fire Kit. (Water and other fire fighting media should be prevented from entering the aquatic environment)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid skin/eye contact. Do not drink. Spills may prove slippery, proceed with caution.
Environmental precautions:	Keep away from water courses and ground water.
Clean up methods:	For large spills contain with inert absorbent material and recover into sealed containers. For small spills mop up with absorbent materials. In both cases dispose of according to national/local regulations.

7. HANDLING AND STORAGE

Handling:	Wear appropriate personal protective equipment.
Storage:	Keep from heat, sparks and open flames. Keep in suitable closed containers in a well ventilated environment. Protect from frost and direct light, particularly sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Values:	Butyl Glycol: 123 mg/m ³ 25ppm TWA 2001 EH40 OES 98 mg/m ³ 20ppm TWA 06 2000 EU ELV 246 mg/m ³ 50ppm STEL 06 2000 EU ELV Lactic acid: LD ₅₀ 3730 mg/kg (oral rat) LD ₅₀ 2000 mg/kg (skin rabbit) N-alkylbenzenesulphonic acid: LD ₅₀ 200-2000 mg/kg (oral rat) 4-chloro-3-methylphenol: LD ₅₀ 1800-5000 mg/kg (oral rat) LD ₅₀ above 2000 mg/kg (skin rat)
Occupational exposure controls:	General: Do not expose users to spray/vapour. Do not ingest. Hand protection: Nitrile or PVC. Eye protection: Safety glasses, goggles or full face. Skin protection: PVC apron or suit
Environmental Exposure Controls:	Do not feed or bleed into water courses; VERY TOXIC TO AQUATIC ORGANISMS.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear greenish-brown liquid	RD:	1 – 1.1
Odour:	Slightly phenolic	Water solubility:	Miscible
pH:	0.5 -2.5 undiluted	Oxidising:	No.
Flammability:	Not flammable		

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10. STABILITY AND REACTIVITY

Condition to avoid:	Product is stable at room temperatures. Avoid high temperatures. Contact with strong acids can release toxic gas.
Hazardous decomposition products:	Toxic fumes of sulphur, phenol and chlorine. Oxides of carbon.

11. TOXOLOGICAL INFORMATION

Effects:	Harmful by inhalation and ingestion. May cause burning; will cause irritation. May cause sensitisation by skin contact.
Routes of exposure:	Inhalation. Ingestion. Skin contact. Eye contact.
CMR Effects:	Carcinogenicity: Not tested, but none known. Mutagenicity: Not tested, but none known. Toxicity for reproduction: Not tested, but none known.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Water: very toxic to fish and other aquatic organisms. <u>Butyl glycol:</u> LC ₅₀ > 100 mg/l, 96hrs, [Fish – Leponis machochirus] EC ₅₀ > 100 mg/l, 96hrs, [Daphnia] EC ₅₀ > 100 mg/l, 7days, [Algae – Scendesmus subspicatus] <u>Lactic acid:</u> EC ₅₀ > 3500 mg/l, [Algae] EC ₅₀ > 320 mg/l, 48hrs, [Daphnia] LC ₅₀ > 100 mg/l, 48hrs, [Fish – Leponis machochirus] <u>N-alkylbenzenesulphonic acid:</u> EC ₅₀ > 10-100 mg/l, 72hrs, [Algae - Scendesmus subspicatus] EC ₅₀ > 1-10 mg/l, 48hrs, [Daphnia] LC ₅₀ > 1-10 mg/l, 96hrs, [Fish – Cyprinus carpio] <u>4-chloro-3-methylphenol:</u> EC ₅₀ > 10 mg/l, 96hrs, [Algae - Scendesmus subspicatus] EC ₅₀ > 2.29 mg/l, 48hrs, [Daphnia] LC ₅₀ > 1.2 mg/l, 48hrs, [Fish – Leuciscus idus] LC ₅₀ > 0.9 mg/l, 96hrs, [Fish – Oncorhynchus mykiss]
Mobility:	Transportation to groundwater and water courses: water soluble.
Persistence and degradability:	<u>Butyl Glycol:</u> Readily biodegradable <u>Lactic acid:</u> Readily biodegradable <u>N-alkylbenzenesulphonic acid:</u> Readily biodegradable <u>4-chloro-3-methylphenol:</u> Complete biodegradation by river (Rhine) bacterial strains in 7-14 days has been observed.
Bioaccumulative potential:	None known (see above).

13. DISPOSAL CONSIDERATIONS

Residues:	None known.
Safe handling:	In sealed, correctly marked containers.
Appropriate methods of disposal:	According to all local regulations for special waste. Applies also to empty, uncleaned containers.

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14. TRANSPORT INFORMATION

Modal Regulations:	ADR/RID
UN Number:	2922
Class:	8
Packing Group:	III
Proper Shipping Name:	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., (CONTAINS ALKYL SULPHONIC ACID & CHLOROPHENOL), 8 (6.1), PGIII (MARINE POLLUTANT)

15. REGULATORY INFORMATION

Health, Safety & Environmental information shown on the label according to 'Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIP 4):	See para. 16 (below)
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16. OTHER INFORMATION

Classification:	Harmful, Corrosive, Dangerous the environment.
Symbols:	Xn, C, N
Risk Phrases:	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.
Safety Phrases:	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.
Training advice:	All users/operatives should be fully familiarized with the contents of this SDS, with specific reference to the R & S phrases and sections 12 & 13 above.
Sources of key data used in the compilation of this Safety Data Sheet.	Health, Safety & Environmental information shown on the label according to 'Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIP 4). ADR/RID Safety Data Sheets as supplied by the manufacturers of specific components.
Disclaimer:	<i>The information above is believed to be accurate and represents the best information currently available to us. However, we make no other warranty, express or implied, with respect to the merchantability/efficacy or to the properties, uses, methods of use, disposal, packaging and transportation of this product other than itemized in this Safety Data Sheet and assume no liability resulting from such. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event will BioLink Limited be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if BioLink Limited has been advised of the possibility of such damages.</i>