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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

- 1.1 IDENTIFICATION OF THE SUBSTANCE OR PREPARATION Purafloc 001
- Identification on the label / trade name **Purafloc 001**
- 1.2 USE OF THE SUBSTANCE / PREPARATION Used for the treatment of water intended for human consumption
- Uses advised against Any other use
- 1.3 COMPANY/UNDERTAKING IDENTIFICATION
- Clinty Chemicals Ltd
215 Doury Road
Ballymena
Co. Antrim
Northern Ireland
BT43 6SS
- E-mail info@clintychemicals.co.uk
- 1.4 EMERGENCY TELEPHONE 028 2564 1618

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION

2.1.1 Classification according to Directive 67/548/EEC or 1999/45 as amended

Classification	Category	Risk Phrases
Not Classified		

2.1.2 Classification according to Regulation (EC) No 1272/2008 as amended

Classification	Category	Hazard Statement
Not Classified		

2.2 LABEL ELEMENTS

2.2.1 Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard Pictograms None



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Signal Word

None

Hazard Statements

None

Precautionary Statements**Prevention**

P102: Keep out of reach of children.
 P264: Wash skin thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
 P501: Dispose of contents/container in accordance with EC directives or respective national laws

Response

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+313 - If eye irritation persists: Get medical advice/attention.

Storage

No incompatible materials for storage known

Disposal

P501 Dispose of contents/container in accordance with local regulation

Further information

The product is classified and labeled in accordance with EC directives or respective national laws

Other hazards

None



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3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 PREPARATION / MIXTURE RELATED INFORMATION

Description Purafloc 001

Hazardous Ingredients

Chemical Name	EC No / REACH Registration Number	CAS No	Amount (%)	Classification according to Regulation (EC) No 1272/2008 – CLP		Classification according to 67/548/EEC or 1999/45/EC
				Hazard Class / Hazard Category	Hazard Symbol	
Carbon	231-153-3 01-2119488716-22	7440-44-0	10-20% w/w	Not Classified	Not Classified	Not Classified

Composition comments

The full text for all P-, R- and H-phrases is displayed in section 16

4. FIRST AID MEASURES

4.1 GENERAL INFORMATION

P308/P313 If exposed or concerned: get medical advice/attention
- No hazards which require special first aid measures

4.2 DESCRIPTION OF FIRST AID MEASURES

IN CASE OF INHALATION (Due to Aerosols or Mists being formed)

P304 IF INHALED: Move to fresh air
- Call a physician if symptoms develop or persist


IN CASE OF SKIN CONTACT

P361 Remove/Take off immediately all contaminated clothing.
P302 + IF ON SKIN: Wash with plenty of soap and water.
P352
P333 + If skin irritation or rash occurs: Get medical advice/attention.
P313

IN CASE OF EYE CONTACT

P305 + IF IN EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P351 +
P338

-

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If possible use lukewarm water. Consult a physician. Do not rub the eyes as this can cause mechanical irritation. Continue rinsing eyes during transport to hospital

IN CASE OF INGESTION


P301 + P330 + P331	IF SWALLOWED: rinse mouth with water. Do NOT induce vomiting.
-	Call a physician if symptoms develop or persist
4.3	MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED No data available
4.4	INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED Rinse with plenty of water

5. FIRE FIGHTING MEASURES

5.1	SUITABLE EXTINGUISHING MEDIA	Not combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
5.2	EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS	None known
5.3	SPECIAL EXPOSURE HAZARDS ARISING FROM THE SUBSTANCE OR PREPARATION ITSELF, COMBUSTION PRODUCTS, RESULTING GASES	No data available
5.4	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS	Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

6. ACCIDENTAL RELEASE MEASURES

6.1	PERSONAL PRECAUTIONS
P280 P308/P313	Wear suitable protective gloves/protective clothing/eye protection/face protection If exposed or concerned: get medical advice/attention
6.2	ENVIRONMENTAL PRECAUTIONS
	Protect drains, sewers and watercourses from potential spills to minimize contamination. Do not wash product into drainage system. Contact the appropriate authorities in all cases where the consequences cannot be quickly and effectively controlled.

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6.3 METHODS FOR CLEANING UP

In case of spill, stop the source of the leak or release
 Contain and recover spilled material using sand or other suitable inert absorbent material. Sweep up and place in a disposable container. Dilute residues with water and then neutralize with lime or limestone powder to a solid consistency. Shovel or sweep up. Must be disposed of in accordance with local and national regulations

Scrub contaminated area with water, using a stiff broom. Prevent contamination of groundwater or surface water.

It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated.

7. HANDLING & STORAGE

7.1 HANDLING

7.1.1 Safe handling: Protective measures

Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate. If skin contact is likely, wear impervious protective clothing and gloves. High standards of personal hygiene and plant cleanliness must be maintained. Wash hands thoroughly after use, and always wash hands before eating, drinking and smoking and before and after using the toilet. Change heavily contaminated clothing as soon as reasonably practicable and launder before re-use. Wash any contaminated underlying skin with soap and water.

Emergency eye wash fountains and emergency showers should be available in the immediate vicinity

7.1.2 Safe handling: Technical measures

Danger for slipping. The work place and work methods shall be organized in such a way that direct contact with the product is prevented or minimized. For personal protection see section 8.

7.1.3 Safe handling: Measures to protect the environment


The design, construction and maintenance of bulk storage and handling facilities are covered by codes of the practice published by the Health and Safety Executive and the Environment Agency.

7.1.4 Safe handling: Precautions against fire and explosion

Not combustible. No specific precautions

7.2 STORAGE

P102 Keep out of reach of children
 P233 Keep container tightly closed

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P234 Keep only in original container

7.2.1 Technical measures and storage conditions

Store between 0°C and 25°C. Keep out of direct sunlight.

7.2.2 Packaging materials

No incompatible materials for storage known

7.3.3 Requirements for storage rooms and vessels

The design, construction and maintenance of bulk storage and handling facilities are covered by codes of the practice published by the Health and Safety Executive and the Environment Agency.

7.3.4 Materials to avoid

No incompatible materials known

7.3.5 Other data

Stable under recommended storage conditions

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Occupational Exposure Limits
Ireland
United Kingdom

Component	CAS No	Type	Value	Form
Carbon	7440-44-0	LTEL (8 hr TWA mg/m ³)	Inhalable 10 mg/m ³ Respirable 4 mg/m ³	


8.2 EXPOSURE CONTROLS

8.2.1 Occupational exposure controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

8.2.1 Instructional measures to prevent exposure

Where there is potential for exposure: provide specific activity training to operators to minimise exposure

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8.2.3 Organisational measures to prevent exposure

Regularly inspect, test and maintain all control measures.

8.2.4 Technical measures to prevent exposure

Consider technical advances and process upgrades (including automation) for the elimination of releases. Minimise exposure using measures such as closed systems and dedicated facilities Drain down systems and clear transfer lines prior to breaking containment. Clean/flush equipment, where possible, prior to maintenance. Clear up spills immediately and dispose of wastes safely. Wash thoroughly after handling

8.3 PERSONAL PROTECTION EQUIPMENT

Respiratory protection

Respiratory protection is not required under normal handling conditions. If aerosols or mist are formed, use half mask with dust filter P2

Hand protection

Compatible chemical resistant gloves, preferably gauntlet type (PVC or neoprene) (EN374)
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.
Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.
Break through time: > 480 min

Eye protection

Tightly fitting safety goggles or face-shield (EN166)
Eye wash fountain is recommended

Body protection:

Wear chemical resistant overalls / suit and rubber boots

9. PHYSICAL & CHEMICAL PROPERTIES

Parameter	Units	Value	Comment
Appearance/Physical State		Liquid	
Appearance/Colour		Black	



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Odour		Odourless	
pH		Neutral	
Crystallisation point	°C	0	
Boiling point	°C	> 100	
Density (at 15°C)	kg/m ³	900-1000	
Vapour pressure	kPa	Not applicable	In accordance with column 2 of REACH Annex VII, the study does not need to be conducted
Viscosity at 15°C	mPa.s	12.5 +/- 1%	
Partition coefficient		Not applicable	
Water solubility		Insoluble	
Flash point	°C	Not applicable	In accordance with column 2 of REACH Annex VII, the study does not need to be conducted
Auto flammability	°C	Non flammable	Substance is non-flammable
Flammability	%	Non flammable	Substance is non-flammable
Explosiveness		Not applicable	Substance is non-explosive
Oxidising properties		Not oxidising	
Thermal Decomposition	°C	No data available	

10. STABILITY & REACTIVITY

10.1 REACTIVITY

Stable under recommended transport or storage conditions

10.2 CHEMICAL STABILITY

Stable under normal conditions

10.3 CONDITIONS TO AVOID

Non known

10.4 MATERIALS TO AVOID

Non known

10.5 HAZARDOUS DECOMPOSITION PRODUCTS

Non known



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11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY

ORAL

LD₅₀ / Oral / Rat >2000 mg/kg
Not classified as harmful if swallowed

DERMAL

0

INHALATION

LC₅₀ / Inhalation / Rat >64.4 mg/l
No known significant effects or critical hazards

IRRITATION AND CORROSION

EYE IRRITATION

There may be irritation and redness

SKIN IRRITATION

There may be mild irritation at the site of contact

SKIN SENSITISATION

There may be mild irritation at the site of contact

LONG TERM TOXICITY

REPEATED DOSE TOXICITY

No data available

CARCINOGENICITY

No data available

MUTAGENICITY

No data available

REPRODUCTIVE TOXICITY

No data available

TERATOGENICITY

No data available

TARGET ORGAN

No data available

12. ECOLOGICAL INFORMATION

12.1 MOBILITY

Water solubility: Insoluble - Non volatile

12.2 PERSISTENCE / DEGRADABILITY

Not biodegradable



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12.3 BIOACCUMULATION

No bioaccumulation potential

12.4 ECOTOXICITY

Species	Test	Value	Units
ALGAE	72H IC50	Exempt	-
DAPHNIA	48H EC50	Exempt	-
FISH	96H LC50	Exempt	-

Hazardous ingredients:

ACTIVATED CARBON HDS

ALGAE	72H IC50	Exempt	-
DAPHNIA	48H EC50	Exempt	-
FISH	96H LC50	Exempt	-

12.5 OTHER ADVERSE EFFECTS

Negligible ecotoxicity

13. DISPOSAL CONSIDERATIONS

13.1 APPROPRIATE DISPOSAL

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Must be disposed of in accordance with local and national regulations.


Thoroughly cleaned packaging material may be recycled.

13.2 CONTAMINATED PACKAGING

Packages that cannot be cleaned must be disposed of the same way as the unused product. Must be disposed of in accordance with local and national regulations.

14. TRANSPORT INFORMATION

This product does not require a classification for any type of transport

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15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Other regulations

No restrictions identified other than those already covered in regulations

15.2 EU REGULATIONS CHEMICAL SAFETY ASSESSMENT

Use for the treatment of water intended for human consumption

16. OTHER INFORMATION

16.1 RELEVANT R- AND H- PHRASES IN SECTION 3 (NUMBER AND FULL TEXT):

None