

SAFETY DATA SHEET

According to Regulation (EC) 1907/2006 as retained in GB CLP

SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier:

Product Name	Protosol
CAS No.	Not applicable
EC No.	Not applicable
REACH Registration No.	N/A

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

Identified Use(s)	Beer clarifier
Uses Advised Against	None identified

1.3 Details of the Supplier of the Safety Data Sheet:

Company Identification	Lallemand UK Ltd
Address of Manufacturer	AB Vickers, Dallow Street, Burton on Trent
Postal code	DE14 2PQ
Telephone:	+44 (0)1283563268
E-mail	abvickers@lallemand.com (only checked during office hours)
Office hours	09:00 to 17:00, Monday to Friday, UK

1.4 Emergency Telephone Number:

++44 (0)1283563268 (office hours only as above)

SECTION 2 Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 Classification: According to Regulation (EC) No. 1272/2008 (CLP).
Not classified

2.2 Label elements

Labelling according to regulation (EC) No.1272/2008 (CLP)
Not classified

Hazard Pictograms:

None

Signal Word: None

Hazard Statements: None

Precautionary Statements None

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2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

2.4 Additional Information

None

SECTION 3. Composition / Information on Ingredients

3.2 Mixtures:

This mixture does not contain substances presenting a health or environmental hazard within the meaning of Regulation (EC) No. 1272/2008, and assigned a Community Workplace Exposure Limit (WEL), classified as PBT/vPvB or included in the Candidate List.

SECTION 4 First Aid Measures

4.1 Description of first aid measures

General advice: no hazards which require special first aid measures

- Inhalation: Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get Medical attention if any discomfort continues.
- Ingestion: NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.
- Skin contact: Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
- Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5 Firefighting Measures

5.1 Extinguishing media:

Suitable extinguishing media: water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable extinguishing media: None identified

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5.2 Special hazards arising from the substance or mixture:

None identified

5.3 Advice for fire-fighters:

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2 Environmental precautions:

No special environmental precautions required

6.3 Method and materials for containment and cleaning up:

Contain or absorb spillage with inert material.

Place absorbents in suitable containers for disposal according to local regulations.

6.4 Reference to other sections:

See also Section 8 and Section 13.

SECTION 7 Handling and Storage

7.1 Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities:

Store in tightly closed original container in a dry, well-ventilated place between 5 – 35°C.

7.3 Specific end use(s)

Beer clarifier

SECTION 8 Exposure Controls / Personal Protection

8.1 Control parameters:

The product does not have occupational exposure limit values.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Ensure that eyewash stations and safety showers are close to the workstation location.

8.2.2 Personal protection equipment:

8.2.2.1 Eyes and face protection: Safety goggles with side protection or full face visor, (EN166).

8.2.2.2 Skin protection: Hands protection: During processing chemical resistant gloves should be worn, (EN374).

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8.2.2.3 Respiratory protection:	Not required
8.2.3. Environmental Exposure Controls	Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

SECTION 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance:	Liquid
Colour:	Colourless
Odour:	slight odour
Viscosity:	<50 mPas
Density:	typical 1.2
Solids Content:	typical 30%
Flash Point:	no data available
Initial Boiling Point and Boiling Range:	100°C
Solubility in Water:	dispersible
Vapour Pressure:	approx. 23 hPa at 20 °C
Vapour Density:	no data available
Auto Ignition Temperature:	no data available
Evaporation Rate:	no data available
Decomposition Temperature:	No data available
Explosive Properties:	No data available
Upper/Lower Flammability or Explosive Limits:	no data available
Oxidising Properties:	No data available
pH:	typical 9.5

9.2 Other Information

None.

SECTION 10 Stability and Reactivity

10.1 Reactivity:

Stable under normal conditions

10.2 Chemical stability:

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions:

No hazardous reactions are known under normal conditions of use

10.4 Conditions to avoid:

Avoid drying out the solution as this can form dust (SiO₂).

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10.5 Incompatible materials:

Strong acids.

10.6 Hazardous decomposition products

No hazardous decomposition products identified

SECTION 11 Toxicological Information

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Not classified. LD 50 >5000 mg/kg (oral rat)
Acute toxicity - Skin Contact	Not classified.
Acute toxicity - Inhalation	Not classified.
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Skin sensitization data	Not classified.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	Not classified
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.

11.2 Other information

Inhalation:	not classified.
Skin Contact:	not classified
Eye Contact:	not classified.
Ingestion:	not classified.

SECTION 12 Ecological Information

12.1 Toxicity:

Toxicity - Aquatic invertebrates	EC 50, 48 Hrs, Daphnia, mg/l 7600
Toxicity - Fish	LC 50, 96 Hrs, Dania rerio (zebra fish) mg/l >5000
Toxicity - Algae	NOEC: 60 mg/l, 48 hours, Selenastrum capricornutum EC50: 120 mg/l, 48 hours, Selenastrum capricornutum EC10: 140 mg/l, 48 hours, Selenastrum capricornutum
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

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12.2. Persistence and degradability

Not known

12.3. Bio-accumulative potential

Not known.

12.4. Mobility in soil

Not known

12.5. Results of PBT and vPvB Assessment

Not known

12.6. Other adverse effects

Not known

SECTION 13 Disposal Considerations
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13.1. Waste treatment methods

Disposal in accordance with local Waste Disposal Authority.

13.2 Additional information

Disposal should be in accordance with local, state or national legislation.

SECTION 14 Transport Information
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14.1 UN number

UN No.	Not classified
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14.2 UN proper shipping name

UN proper shipping name	Not applicable
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14.3 Transport hazard class

ADR/RID Class	Not applicable
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IMDG Class	Not applicable
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IMDG EMS	Not applicable
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ICAO/IATA

Excepted Quantities	Not applicable
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Passenger and Cargo Aircraft Limited Quantities	Not applicable
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Packing Instructions

Passenger and Cargo Aircraft Limited Quantities	Not applicable
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Max net Qty

Passenger and Cargo Aircraft Packing	Not applicable
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Instructions

Passenger and Cargo Aircraft Max net Qty	Not applicable
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Cargo Aircraft Packing Instructions	Not applicable
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Cargo Aircraft Max net Qty	Not applicable
IATA Special Provisions	Not applicable
ADR Classification Code	Not applicable
ADR HIN	Not applicable
ADR Transport Category	Not applicable
Tunnel Restriction Code	Not applicable
Emergency Action Code	Not applicable

14.4 Packing group

Packing group	Not applicable
Labels	Not applicable
Special Provisions	Not applicable
Limited Quantities	Not applicable
Excepted Quantities	Not applicable
Mixed Packing Instructions for Packages	Not applicable
Special Packing Provisions for Packages	Not applicable
Mixed Packing Instructions for Packages	Not applicable

14.5 Environmental hazards

Environmental hazards	Not known
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14.6 Special precautions for user

Not known.	Not applicable
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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Packing Instructions for Portable Tanks	Not applicable
Special Provisions for Portable Tanks	Not applicable
Tank Code for Tanks	Not applicable
Special Provisions for Tanks	Not applicable
Vehicle for Tank Carriage	Not applicable
Special Provisions for Carriage - Packages	Not applicable
Special Provisions for Carriage - Bulk	Not applicable
Special Provisions for Carriage - Loading, Unloading and Handling	Not applicable
Special Provisions for Carriage - Operation	Not applicable

SECTION 15 Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Not applicable

This Safety Data Sheet was prepared in accordance with EC Regulation (EC) No. 1907/2006 as retained in GB CLP. The product has been classified in accordance with Regulation (EC) No. 1272/2008 (CLP)

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this mixture by the supplier.

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SECTION 16 Other Information

LEGEND

Hazard Pictograms:

none

Hazard Statements:

None

Precautionary Statements

None

Abbreviations:

CAS: Chemical Abstracts Service;
EINECS: European Inventory of Existing Commercial Chemical Substances
PBT: Persistent, Bioaccumulative and Toxic.
vPvB: Very Persistent and Very Bioaccumulative.

References:

Supplier's Safety Data Sheets for ingredients
ECHA REACH dossiers
Approved Classification and Labelling Guide
Regulation (EC) No. 1272/2008 of the European Parliament and of the council.

Version history:

Version:	2
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Previous version:	1
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Sections changed from previous version:	15

Disclaimer

The information in this safety data sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. No responsibility or liability, expressed or implied, can be accepted for any problems which may arise as a result of any actions or decisions that may be taken by the user, or by any other party that may be involved with specifying or using the material.