

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name:** BREWERS CLARITY**Product code:** CLARITY**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.3. Details of the supplier of the safety data sheet****Company name:** Murphy and Son Ltd  
Murphy & Son Ltd  
Alpine St, Old Basford  
Nottingham  
NG6 0HQ  
United Kingdom**Tel:** (+44) 115 978 5494**Email:** technical@murphyandson.co.uk**1.4. Emergency telephone number****Emergency tel:** (+44) 115 978 5494  
(office hours only)**Section 2: Hazards identification****2.1. Classification of the substance or mixture****Classification under CLP:** Resp. Sens. 1: H334**Most important adverse effects:** May cause allergy or asthma symptoms or breathing difficulties if inhaled.**2.2. Label elements****Label elements under CLP:****Hazard statements:** H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.**Hazard pictograms:** GHS08: Health hazard**Signal words:** Danger**Precautionary statements:** P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

P285: In case of inadequate ventilation wear respiratory protection.

P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

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P501: Dispose of contents/container to comply in accordance with all local, regional, national and international regulations.

### 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Non-classified ingredients:

##### ENDOPEPTIDASE

| EINECS    | CAS       | CHIP Classification | CLP Classification | Percent |
|-----------|-----------|---------------------|--------------------|---------|
| 232-642-4 | 9001-92-7 | -                   | -                  | 1-10%   |

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Obtain medical attention if ill effect or irritation develops

**Eye contact:** Bathe the eye with running water for 15 minutes. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Obtain medical attention if pain, blinking, tears or redness persist.

**Ingestion:** Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting. If breathing is difficult, give oxygen. Seek medical attention if ill effect develops

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Obtain medical attention if breathing difficulty and / or other complaints appear

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** There may be a feeling of tightness in the chest with shortness of breath. May cause sensitisation by inhalation

### 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Not applicable.

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## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Keep unprotected persons away.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding. Avoid subsoil penetration. Soak up spilled material with inert absorptive material such as granular clay or sawdust.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Ensure there is sufficient ventilation of the area. Avoid prolonged or repeated contact with the skin or any eye contact. Wear suitable protective clothing when mixing or working with the product. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the workday. Keep container tightly closed. Wash hands after handling the product. Persons with a history of history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

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## 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

**Suitable packaging:** High density polyethylene drums and containers.

## 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Workplace exposure limits:

#### Respirable dust

| State | 8 hour TWA         | 15 min. STEL | 8 hour TWA | 15 min. STEL |
|-------|--------------------|--------------|------------|--------------|
| EU    | 10mg/m3 (glycerol) | -            | -          | -            |

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.

**Respiratory protection:** Particle filter class P3SL (EN143).

**Hand protection:** Wear suitable synthetic gloves (Category 3, Class 3) resistant to chemical penetration (cfr. EN374) Breakthrough time of the glove material > 8 hours. Nitrile gloves. Butyl gloves. Neoprene gloves. Viton gloves.

**Eye protection:** Safety glasses with side-shields. Ensure eye bath is to hand.

**Skin protection:** Protective clothing with elasticated cuffs and closed neck.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Colour:** Brown

**Odour:** Slight fermentation odour

**Evaporation rate:** No data available.

**Oxidising:** No data available.

**Solubility in water:** Highly soluble

**Viscosity:** No data available.

**Boiling point/range°C:** No data available.

**Flammability limits %: lower:** No data available.

**Flash point°C:** No data available.

**Autoflammability°C:** No data available.

**Relative density:** No data available.

**VOC g/l:** No data available.

**Melting point/range°C:** No data available.

**upper:** No data available.

**Part.coeff. n-octanol/water:** No data available.

**Vapour pressure:** No data available.

**pH:** 3-7

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## 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Heat.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicity values:

| Route                   | Species | Test | Value | Units |
|-------------------------|---------|------|-------|-------|
| ORAL<br>(Endopeptidase) | RAT     | LD50 | >5000 | mg/kg |

#### Relevant hazards for substance:

| Hazard                         | Route | Basis                 |
|--------------------------------|-------|-----------------------|
| Respiratory/skin sensitisation | INH   | Hazardous: calculated |

### Symptoms / routes of exposure

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** There may be a feeling of tightness in the chest with shortness of breath. May cause sensitisation by inhalation

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## Section 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity values:** No data available.

### 12.2. Persistence and degradability

**Persistence and degradability:** Not biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** Bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

**Other adverse effects:** Toxic to aquatic organisms. Toxic to soil organisms.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Dispose in a safe manner in accordance with local/national regulations. Transfer to a suitable container and arrange for collection by specialised disposal company. Avoid release into the environment Do not allow the wash water to run off into any sewer, stream, well or pond, and if necessary soak it up with more absorbent material. Collect spillages in an appropriate container.

**Disposal of packaging:** Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

## Section 15: Regulatory information

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

**Specific regulations:** Not applicable.

### 15.2. Chemical Safety Assessment

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No

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453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Legend to abbreviations:** PNEC = predicted no effect concentration

DNEL = derived no effect level

LD50 = median lethal dose

LC50 = median lethal concentration

LDLO = lethal dose low

EC50 = median effective concentration

IC50 = median inhibitory concentration

dw = dry weight

bw = body weight

cc = closed cup

oc = open cup

MUS = mouse

GPG = guinea pig

RBT = rabbit

HAM = hamster

HMN = human

MAM = mammal

PGN = pigeon

IVN = intravenous

SCU = subcutaneous

SKN = skin

DRM = dermal

OCC = ocular/corneal

OPT = optical

INH = inhalation

PCP = physico-chemical properties

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.