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## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

### 1.1 Product Identifier

|                         |                                  |
|-------------------------|----------------------------------|
| Product Form:           | Mixture                          |
| Trade Name/Designation: | Bio-D Washing Up Liquid Mandarin |
| Product Code:           | BWUM127a, BWUM45a, BWUM20a       |
| Product Group:          | Hand Dishwashing Detergent       |
| Container Size:         | 12 x 750ml, 4 x 5L, 1 x 20L      |
| UFI:                    | 7TA0-NOMX-R00N-RRR7              |

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

#### 1.2.1 Relevant Identified Uses

Cleaning Agent, Sanitiser

#### 1.2.2 Uses Advised Against

No additional information available

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer

The Bio-D Company  
Unit 10 Westgate Way, Marfleet Environmental Tech Park  
Hedon Road, Hull  
HU9 5LW  
01482 229950  
[www.biodegradable.biz](http://www.biodegradable.biz)  
[info@biodegradable.biz](mailto:info@biodegradable.biz)

#### Legal Entity

BIODC Ltd  
2 Castleview Park, Swords, K67 W227  
01482 229950

### 1.4 Emergency telephone number

Customer Service: 01482 229950(Mon – Fri, 9am – 4:30pm)  
NHS Help Line: 111  
National Poison Information Service(For health professionals only): 0344 892 0111


## Section 2: Hazards Identification

### 2.1 Classification of the Substance or Mixture

#### Classification according to Regulation (EC) No. 1272/2008(CLP)

|             |  |
|-------------|--|
| Skin Irrit. | H315   |
| Eye Irrit.  | H319   |
| EUH 208     | Contains Limonene. May produce an allergic reaction. |

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## 2.2 Label Elements

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

#### Hazard Pictograms



#### Signal Words:

WARNING

#### Hazard Statements:

H315 - Causes Skin Irritation

H319 - Causes Serious Eye Irritation

#### Precautionary Statements:

P102: Keep out of reach of children. P233: Keep container tightly closed. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P337 + P313: If eye irritation persists, get medical advice/ attention. P410: Protect from sunlight.  
(20L only EUH210: Safety data sheet available on request.)

## 2.3 Other Hazards

This substance/mixture does not meet the PBT criteria of REACH registration, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH registration, annex XIII

## Section 3: Composition/Information on Ingredients

### 3.1 Substance

Not Applicable


### 3.2 Mixture

| Name                  | Product Identifier   | %           | Classification according to Regulation (EC) No 1272/2008(CLP)  |
|-----------------------|--|-------------|--|
| Anionic Surfactant    | (CAS No) 68891-38-3<br>(EC NO) 500-234-8<br>(REACH No) 2119488639-16 | 5% - 15%    | Skin Irrit. 2 - H315<br>Eye Dam. 1 - H318<br>Aquatic Chronic 3 - H412  |
| Amphoteric Surfactant | (CAS No) 61789-40-0  | 1% - 5%     | Eye Dam. 1 - H318<br>Aquatic Chronic 3 - H412  |
| Mandarin Oil          | N/A  | 0.1% - 0.5% | Flam Liq - H226<br>Skin Irrit 2 - H315<br>Eye Irrit, 2 - H319<br>Skin sens 1 - H317<br>Asp hazard 1 - H304<br>Aquatic Acute 1 – H400<br>Aquatic Chronic 1 – H410 |

Full list of H-Statements: see section 16

## Section 4: First Aid Measures

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#### 4.1 Description of First Aid Measures

Additional Advice: First Aider: Pay attention to self-protection. In case of concern or persistent symptoms, always consult a physician.

Inhalation: Remove person to fresh air and keep comfortable for breathing.

Skin contact: Wash skin with plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse.

Eyes contact: Rinse eyes with plenty of water, also under the eyelids for at least 15 minutes.

Ingestion: Clean mouth with water. Do NOT induce vomiting. Do not give milk or alcoholic beverages.

#### 4.2 Most Important Symptoms and Effects, both Acute and Delayed

Inhalation: May cause sensitisation or allergic reactions in sensitive individuals.

Skin Contact: No data available.

Eyes contact: No data available.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

#### 4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

### Section 5: Fire Fighting Measures

#### 5.1 Extinguishing Media

Suitable extinguishing media: Water spray. Dry extinguishing powder. Foam. Carbon Dioxide.

#### 5.2 Special Hazards Arising from the Substance or Mixture

No data available.

#### 5.3 Advice for Firefighters

Protection during firefighting: Do not attempt to take action without suitable protective clothing and self-contained breathing apparatus.

### Section 6: Accidental Release Measures

#### 6.1 Personal Precautions, Protective Equipment & Emergency Procedures

##### 6.1.1 For Non-Emergency Personnel

Use personal protective equipment as required. Provide adequate ventilation. Avoid contact with skin, eyes and clothing.

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### 6.1.2 For Emergency Responders

Use personal protective equipment as required. Ensure procedures for decontamination are in place

### 6.2 Environmental Precautions

Do not allow into surface water or drains.

### 6.3 Methods and Material for Containment and Cleaning | Up

Methods for cleaning up: Provide adequate ventilation. Use absorbent material to soak up spill. Collect in closed and suitable containers for disposal. Site should have a spill plan to ensure that adequate safeguards are in place to minimise the impact of episodic releases.

Other information: Dispose of materials and residues at an authorised site or via an approved waster collector.

### 6.4 Reference to other Sections

For disposal: See Section 13

For protective equipment: See Section 8.2

## Section 7: Handling & Storage

### 7.1 Precautions for Safe Handling

Precautions for safe handling: Provide good ventilation. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Remove contaminated clothing.

### 7.2 Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store in a cool dry place. Keep out of reach of children. Keep container tightly closed.

### 7.3 Specific End Use(s)

No data available.

## Section 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

No exposure limits known for ingredient(s).

### 8.2 Exposure Controls



Personal Protective Equipment: Avoid all unnecessary exposure. Avoid contact with skin, eye and clothing.

Hand Protection: Protective gloves (EN 374)

Eye Protection: Wear safety glasses (EN 166)

Body Protection: No special clothing is recommended under normal use.

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Respiratory Protection: No special respiratory equipment is recommended under normal use with adequate ventilation.

Environmental exposure controls: Avoid release to the environment. Do not allow to enter into surface water or drains.

### Section 9: Physical & Chemical Properties

#### 9.1 Information on Basic Physical & Chemical Properties

|   |                          |
|---|--------------------------|
| Physical state:                             | Liquid                   |
| Colour:                                     | Colourless, light yellow |
| Odour:                                      | Characteristic           |
| Odour:                                      | No data available        |
| pH:   | 11.5-12.0                |
| Relative evaporation rate (butylacetate=1): | No data available        |
| Melting Point:                              | Not applicable           |
| Freezing point:                             | Not applicable           |
| Boiling point:                              | No data available        |
| Flash point:                                | No data available        |
| Auto-ignition temperature:                  | No data available        |
| Decomposition temperature:                  | No data available        |
| Vapour pressure:                            | No data available        |
| Relative Density:                           | 1.028 kg/l               |
| Solubility:                                 | Miscible with water      |
| Partition coefficient:                      | No data available        |
| Kinematic viscosity:                        | No data available        |
| Dynamic viscosity:                          | No data available        |
| Explosive properties:                       | No data available        |
| Oxidising properties:                       | No data available        |
| Explosive limits:                           | No data available        |

#### 9.2 Other Information

VOC content: No data available

### Section 10: Stability and Reactivity

#### 10.1 Reactivity

This product is non-reactive under normal conditions of use, storage and transport.

#### 10.2 Chemical Stability

Stable under normal conditions.


#### 10.3 Possibility of Hazardous Reactions

No dangerous reactions known under normal conditions of use.

#### 10.4 Conditions to Avoid

Keep out of direct sunlight and away from direct heat.

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#### 10.5 Incompatible Materials

No available data.

#### 10.6 Hazardous Decomposition Products

No hazardous decomposition known under normal conditions of use.

### Section 11: Toxicological Information

#### 11.1 Information of Toxicological Effects

This mixture has not been subjected to toxicological testing.

|                                    |  |
|------------------------------------|--|
| Skin corrosion/irritation:         | Causes skin irritation   |
| Serious eye damage/irritation:     | Causes serious eye irritation                                    |
| Respiratory or skin sensitisation: | Based on available data the classification criteria are not met. |
| Germ cell mutagenicity:            | Not classified   |
| Carcinogenicity:                   | Not classified   |
| Reproductive toxicity:             | Based on available data the classification criteria are not met. |
| STOT- single exposure:             | Based on available data the classification criteria are not met. |
| STOT-repeated exposure:            | Based on available data the classification criteria are not met. |

### Section 12: Ecological Information

#### 12.1 Toxicity

|                           |  |
|---------------------------|--|
| Ecology – general:        | This product is not considered harmful to aquatic organisms not to cause long term effects to the environment. |
| Acute aquatic toxicity:   | Based on available data the classification criteria are not met.   |
| Chronic aquatic toxicity: | Based on available data the classification criteria are not met.   |

#### 12.2 Persistence & Degradability

This product does not contain any persistent substances. The surfactants comply with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States.

#### 12.3 Bioaccumulative Potential

The product does not contain any substances expected to be bioaccumulating.

#### 12.4 Mobility in Soil

No data available.


#### 12.5 Results of PBT and vPvB Assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Other Adverse Effects

This product is suitable for use with septic tanks and other waste water treatment plants.

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### Section 13: Disposal Considerations

#### 13.1 Waste Treatment Methods

Dispose of contents/container in accordance with current regulations. Collect and dispose of waste product at an authorised disposal facility or contact your local waste disposal site for advice. This product is not classified as hazardous waste.

### Section 14: Transport Information

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1 UN Number

Not required.

#### 14.2 UN Proper Shipping Name

Not required.

#### 14.3 Transport Hazard Classes

Not required.

#### 14.4 Packing Group

Not required.

#### 14.5 Environmental Hazards

Dangerous for the environment: No

Marine pollutant: No

Other information: No other information available

#### 14.6 Special Precautions for User


Overland transport: Keep products in a cool dry place and ensure a stable journey to prevent damages.

Transport by sea: Keep products in a cool dry place and ensure a stable journey to prevent damages.

Air transport: Keep products in a cool dry place and ensure a stable journey to prevent damages.

Inland waterway transport: Keep products in a cool dry place and ensure a stable journey to prevent damages.

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Rail transport: Keep products in a cool dry place and ensure a stable journey to prevent damages.

14.7 Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not applicable

## Section 15: Regulatory Information

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### 15.1.1 EU Regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance: Safety Data Sheets for Substances and Preparations.

#### 15.1.2 National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

GB Classification, Labelling and Packaging Regulation

### 15.2 Chemical Safety Assessment

No chemical safety assessment has been conducted for this mixture.

## Section 16: Other Information

### Intended Shelf Life

12 months from opening.

### Full text of H statements:


H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H226: Flammable liquid and vapour.  
H304: May be fatal if swallowed and enters airways.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
H412: Harmful to aquatic life with long-lasting effects,

### Indication of changes:

Update to Section 1.3 manufacturing address  
Revision No: 1.2 Amended contact details

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Classification:

The classification of this mixture was derived using calculations according to Regulation (EC) 1272/2008(CLP) together with ingredient study reports and expert judgement. Classifications were conducted in-house by trained personnel within the Quality Department. The classification report is available to competent authorities on request following a completed non-disclosure agreement.

Department issuing SDS:

Bio-D Quality Department/Regulatory Affairs Department

Sources of key data:

ECHA Website, Supplier SDSs

The contents and format of this SDS are in accordance with:

EEC Commission Directive 2015/830/EC, Regulation (EC) 1272/2008(CLP), and EEC Commission Regulation 1907/2006/EC (REACH) Annex II. Information declared as "No data available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
 RID: Regulations Concerning the International Transport of Dangerous Goods by Rail  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative

Disclaimer Of Liability:

The information in this SDS was obtained from sources which we believe are reliable. However the information is provided without any warranty, express or implied, regarding its correctness.

**End of Safety Data Sheet**