



ECO 2

## SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010

### 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

|  |   |
|--|---|
| <b>1.1 Product identifier</b>  |   |
| Product Name   | ECO 2.  |
| CAS No.  | Mixture.  |
| EINECS No.   | Mixture.  |
| REACH Registration No.   | None assigned.  |
| <b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b> |   |
| Identified use(s)  | A removable, water based, contrast aid paint for use in the Magnetic Particle Inspection process (BS EN ISO 9934-2:2002). |
| Uses advised against   | None known.   |
| <b>1.3 Details of the supplier of the Safety Data Sheet</b>                              |   |
| Company Identification   | Johnson and Allen Ltd<br>Neocol Works<br>Smithfield<br>Sheffield<br>S3 7AR<br>United Kingdom.                             |
| Telephone  | 0114 2738066  |
| Fax  | 0114 2729842  |
| E-Mail (competent person)  | info@johnsonandallen.co.uk  |
| <b>1.4 Emergency telephone number</b>  |   |
| National Poisons Information Service   | 111   |
| Company  | 0114 2738066 (UK office hours 08.30-17.00)  |

### 2. SECTION 2: HAZARDS IDENTIFICATION

|  |  |
|--|--|
| <b>2.1 Classification of the substance or mixture</b>        |  |
| <b>2.1.1 Regulation (EC) No. 1272/2008 (CLP)</b>             | Not classified as dangerous for supply/use.      |
| <b>2.1.2 Directive 67/548/EEC &amp; Directive 1999/45/EC</b> | Not classified as dangerous for supply/use.      |
| <b>2.2. Label elements</b>                                   | According to Regulation (EC) No. 1272/2008 (CLP) |
| Product Name   | ECO 2.   |
| Hazard Pictogram   | None.  |
| Signal word(s)   | None.  |
| Hazard statement(s)  | None.  |
| Precautionary statement(s)                                   | None.  |
| <b>2.3 Other hazards</b>                                     | None.  |
| <b>2.4 Additional Information</b>                            | None.  |



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### 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Mixtures

EC Classification No. 1272/2008

| Hazardous ingredient(s) | %W/W | CAS No.  | EC No.    | REACH Registration No. | Hazard pictogram(s) and Hazard statement(s)  |
|-------------------------|------|----------|-----------|------------------------|--|
| Butyl glycol            | 1-3  | 111-76-2 | 203-905-0 | 01-2119475108-36-0000  | GHS07, Acute Tox. 4; H302, Acute Tox. 4; H312, Acute Tox. 4; H332, Skin Irrit. 2; H315, Eye Irrit. 2; H319 |
| Butyl diglycol acetate  | 1-2  | 124-17-4 | 204-685-9 | 01-2119475110-51-0000  | GHS07, Eye Irrit. 2; H319  |

EC Classification No. 67/548/EEC

| Hazardous ingredient(s) | %W/W | CAS No.  | EC No.    | REACH Registration No. | EC Classification and Risk Phrases |
|-------------------------|------|----------|-----------|------------------------|------------------------------------|
| Butyl glycol            | 1-3  | 111-76-2 | 203-905-0 | 01-2119475108-36-0000  | Xn; R20/21/22<br>Xi; R36/38        |
| Butyl diglycol acetate  | 1-2  | 124-17-4 | 204-685-9 | 01-2119475110-51-0000  | Xi; R36                            |

#### 3.2 Additional Information

For full text of H/P phrases see section 16.

### 4. SECTION 4: FIRST AID MEASURES



#### 4.1 Description of first aid measures

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact

Gently wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention.

Eye Contact

Flush eyes with water for at least 15 minutes while holding eyelids open. If eye irritation persists, get medical advice/attention.

Ingestion

Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Get medical advice/attention if you feel unwell.

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

None anticipated.

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

Unlikely to be required but if necessary treat symptomatically.



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### 5. SECTION 5: FIRE-FIGHTING MEASURES

- 5.1 Extinguishing Media**  
 Suitable Extinguishing Media Extinguish with carbon dioxide, dry chemical, foam or waterspray.  
 Unsuitable Extinguishing Media Do not use water jet.
- 5.2 Special hazards arising from the substance or mixture** Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Nitrogen oxides.
- 5.3 Advice for fire-fighters** Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

### 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation. Wash hands thoroughly after handling.
- 6.2 Environmental precautions** Do not release large quantities into the surface water or into drains.
- 6.3 Methods and material for containment and cleaning up** Clean preferably with detergent, do not use solvents. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal.
- 6.4 Reference to other sections** See Also Section 8, 13.

### 7. SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** For professional users only. Provide adequate ventilation. Avoid inhalation of high concentrations of vapours. Wash hands thoroughly after handling.
- 7.2 Conditions for safe storage, including any incompatibilities**  
 Storage Temperature 5 – 25°C  
 Storage Life Stable under normal conditions.  
 Incompatible materials Strong oxidising agents, Acids, Alkaline.
- 7.3 Specific end use(s)** A removable, water based, contrast aid paint for use in the Magnetic Particle Inspection process (BS EN ISO 9934-2:2002).

### 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**  
**8.1.1 Occupational Exposure Limits**

| SUBSTANCE    | CAS No.  | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m <sup>3</sup> ) | STEL (ppm) | STEL (mg/m <sup>3</sup> ) | Note          |
|--------------|----------|---------------------|------------------------------------|------------|---------------------------|---------------|
| Butyl glycol | 111-76-2 | 25                  | 123                                | 50         | 246                       | WEL, BMGV, Sk |

WEL: Workplace Exposure Limit (UK HSE EH40)  
 BMGV: Biological monitoring guidance value (UK HSE EH40)  
 Sk: Can be absorbed through skin causing systemic toxic effects

- 8.1.2 Biological limit value** Not established.
- 8.1.3 PNECs and DNELs** Not established.



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### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Provide adequate ventilation.

#### 8.2.2 Personal protection equipment

Eye/face protection



Skin protection (Hand protection/ Other)



Respiratory protection



Thermal hazards

Wear protective eye glasses for protection against liquid splashes.

Wear suitable gloves if prolonged skin contact is likely.

Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.

Not applicable.

#### 8.2.3 Environmental Exposure Controls

Do not release large quantities into the surface water or into drains.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance

Liquid.

Colour

White.

Odour

Almost odourless.

Odour threshold

Not available.

pH (Value)

7 – 9

Melting point/freezing point

Not available.

Initial boiling point and boiling range

100°C

Flash point

Not applicable.

Evaporation rate

Not applicable.

Flammability

Non-flammable.

Upper/lower flammability or explosive limits

Not applicable.

Vapour pressure

Not available.

Vapour density

Not available.

Relative density

Not available.

Solubility(ies)

Miscible with: Water.

Partition Coefficient (n-Octanol/water)

Not available.

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity

0.05 – 0.2 Pa•s (ICI C & P/BS3900)

Explosive properties

Not explosive.

Oxidising properties

Not oxidising.

### 9.2 Other information

Volatile organic compound

50 g/l



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### 10. SECTION 10: STABILITY AND REACTIVITY

|      |                                    |  |
|------|------------------------------------|--|
| 10.1 | Reactivity                         | Stable under normal conditions.                                |
| 10.2 | Chemical stability                 | Stable under normal conditions.                                |
| 10.3 | Possibility of hazardous reactions | No hazardous reactions known if used for its intended purpose. |
| 10.4 | Conditions to avoid                | None known.  |
| 10.5 | Incompatible materials             | Strong oxidising agents, Acids, Alkaline.                      |
| 10.6 | Hazardous Decomposition Product(s) | No hazardous decomposition products known.                     |

### 11. SECTION 11: TOXICOLOGICAL INFORMATION

|      |                                      |  |
|------|--------------------------------------|--|
| 11.1 | Information on toxicological effects |  |
|      | Acute toxicity                       | Low acute toxicity.                          |
|      | Irritation                           | Non-irritant.                                |
|      | Corrosivity                          | Not classified.                              |
|      | Sensitisation                        | It is not a skin sensitiser.                 |
|      | Repeated dose toxicity               | None anticipated.                            |
|      | Carcinogenicity                      | No evidence of carcinogenicity.              |
|      | Mutagenicity                         | There is no evidence of mutagenic potential. |
|      | Toxicity for reproduction            | None anticipated.                            |
| 11.2 | Other information                    | None.  |

### 12. SECTION 12: ECOLOGICAL INFORMATION

|      |                                    |   |
|------|------------------------------------|---|
| 12.1 | Toxicity                           | Low toxicity to aquatic organisms.  |
| 12.2 | Persistence and degradability      | No information available.   |
| 12.3 | Bioaccumulative potential          | No information available.   |
| 12.4 | Mobility in soil                   | Miscible with: Water. The product is predicted to have high mobility in soil. |
| 12.5 | Results of PBT and vPvB assessment | Not classified as PBT or vPvB.  |
| 12.6 | Other adverse effects              | None known.   |

### 13. SECTION 13: DISPOSAL CONSIDERATIONS

|      |                         |  |
|------|-------------------------|--|
| 13.1 | Waste treatment methods | Dispose of wastes in an approved waste disposal facility.  |
| 13.2 | Additional Information  | Disposal should be in accordance with local, state or national legislation.<br>Waste code (Europe): 08 01 11, 08 01 12, 08 01 15, 08 01 16 |

### 14. SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

|      |   |                 |
|------|---|-----------------|
| 14.1 | UN number   | Not applicable. |
| 14.2 | UN Proper Shipping Name   | Not applicable. |
| 14.3 | Transport hazard class(es)  | Not applicable. |
| 14.4 | Packing Group   | Not applicable. |
| 14.5 | Environmental hazards   | Not applicable. |
| 14.6 | Special precautions for user  | Not applicable. |
| 14.7 | Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |



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## 15. SECTION 15: REGULATORY INFORMATION

|   |                               |
|---|-------------------------------|
| <b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>                              |                               |
| <b>15.1.1 EU regulations</b>  |                               |
| Authorisations and/or restrictions on use   |                               |
| Candidate List of Substances of Very High Concern for Authorisation   | All chemicals are not listed. |
| REACH: ANNEX XIV List of substances subject to authorisation  | All chemicals are not listed. |
| REACH: ANNEX XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | All chemicals are not listed. |
| Community Rolling Action Plan (CoRAP); Draft 26/03/2014   | All chemicals are not listed. |
| <b>15.1.2 National regulations</b>  | None known.                   |
| <b>15.2 Chemical Safety Assessment</b>  | Not available.                |

## 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

### LEGEND

|               |  |
|---------------|--|
| LTEL          | Long Term Exposure Limit                 |
| STEL          | Short Term Exposure Limit                |
| DNEL          | Derived No Effect Level                  |
| PNEL          | Predicted No Effect Concentration        |
| PBT           | Persistent, Bioaccumulative and Toxic    |
| vPvB          | very Persistent and very Bioaccumulative |
| Acute Tox. 4  | Acute toxicity Category 4                |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2     |
| Eye Irrit. 2  | Serious eye damage/irritation Category 2 |
| Xn            | Harmful                                  |
| Xi            | Irritant                                 |

### Risk Phrases

|           |   |
|-----------|---|
| R36       | Irritating to eyes.   |
| R36/38    | Irritating to eyes and skin.                                  |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |

### Hazard statement(s)

|      |                                |
|------|--------------------------------|
| H302 | Harmful if swallowed.          |
| H312 | Harmful in contact with skin.  |
| H315 | Causes skin irritation.        |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled.            |



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**Hazard pictogram(s) and Hazard Symbol**  
GHS07



Xn



Xi



#### Disclaimers

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#### Annex to the extended Safety Data Sheet (eSDS)

No information available.