SAFETY DATA SHEET
SPO/W463 - LUMINOUS PAINT

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

1.1. Product identifier
Product name SPO/W463 - LUMINOUS PAINT
Product No. SPO/W463/280

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Paint.

1.3. Details of the supplier of the safety data sheet
Supplier SPECIALIST PAINTS ONLINE
3 KIRKBY STREET
HULL
HU2 0HE
+44 (0) 1482 222421 (T)
sales@specialistpaintsonline.co.uk
Contact Person Technical Department - 08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri as above

1.4. Emergency telephone number
+44 (0) 1482 222421 - Specialist Paints Online (08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical and Chemical Hazards Not classified.
Human health Not classified.
Environment Not classified.
The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements
Label In Accordance With (EC) No. 1272/2008
No pictogram required.

Precautionary Statements
P102 Keep out of reach of children.
P101 If medical advice is needed, have product container or label at hand.
P262 Do not get in eyes, on skin, or on clothing.
P271 Use only outdoors or in a well-ventilated area.
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.
P501A Dispose of contents/container to special waste collection point

2.3. Other hazards
### 3.2. Mixtures

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Copper doped zinc sulphide</td>
<td>68611-70-1</td>
<td>271-904-2</td>
<td>10-30%</td>
<td>EUH031</td>
<td>R31.</td>
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<tr>
<td>Monopropylene glycol</td>
<td>57-55-6</td>
<td>200-338-0</td>
<td>1-5%</td>
<td>Not classified.</td>
<td>Not classified.</td>
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<tr>
<td>Hydroxyethyl cellulose</td>
<td>9004-62-0</td>
<td></td>
<td>&lt;1%</td>
<td>Not classified.</td>
<td>Not classified.</td>
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<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>215-185-5</td>
<td>&lt;0.1%</td>
<td>C;R35</td>
<td>Skin Corr. 1A - H314</td>
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<tr>
<td>AMMONIA ...%</td>
<td>1336-21-6</td>
<td>215-647-6</td>
<td>&lt;0.1%</td>
<td>C;R34</td>
<td>STOT SE 3 - H335</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>N;R50</td>
<td>Aquatic Acute 1 - H400</td>
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</tbody>
</table>

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.
SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information
General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious.

Inhalation
Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues. Place unconscious person on the side in the recovery position and ensure breathing can take place.

Ingestion
DO NOT induce vomiting. Get medical attention immediately. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

Skin contact
Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact
Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention.

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

General information
If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible.

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

No specific first aid measures noted.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
Extinguish with foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards
The product is non-combustible. If heated, corrosive and toxic vapours/gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures
Avoid breathing fire vapours. Do not allow runoff to sewer, waterway or ground. Cool containers exposed to flames with water until well after the fire is out.

Protective equipment for fire-fighters
Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Should be prevented from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

For personal protection, see section 8.
SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Avoid inhalation of vapours and spray mists. Do not eat, drink or smoke when using the product. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. The Manual Handling Operations Regulations may apply to the handling of containers of this product. To assist employers, the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity value given in section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

7.2. Conditions for safe storage, including any incompatibilities


7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage Description

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

SECTION 8: EXPOSURE CONTROLS/PERSOAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMMONIA ...%</td>
<td>WEL</td>
<td>25 ppm</td>
<td>35 mg/m³</td>
<td>17 ppm</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>WEL</td>
<td>10 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copper doped zinc sulphide</td>
<td>WEL</td>
<td>15 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydroxyethyl cellulose</td>
<td>WEL</td>
<td>10 mg/m³</td>
<td></td>
<td>4 mg/m³</td>
</tr>
<tr>
<td>Monopropylene glycol</td>
<td>WEL</td>
<td>150 ppm</td>
<td>10 mg/m³</td>
<td>resp.dust</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>WEL</td>
<td></td>
<td></td>
<td>2 mg/m³</td>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit.
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**Monopropylene glycol (CAS: 57-55-6)**

**DNEL**
- Professional Inhalation. Long Term Systemic Effects: 50 mg/m³
- Professional Inhalation. Long Term Local Effects: 10 mg/m³
- Consumer Inhalation. Long Term Systemic Effects: 168 mg/m³
- Consumer Inhalation. Long Term Local Effects: 10 mg/m³

**PNEC**
- Freshwater: 206 mg/l
- Marinewater: 26 mg/l
- Sediment (Freshwater): 572 mg/l
- Sediment (Marinewater): 57.2 mg/l
- Soil: 50 mg/kg
- STP: 20000 mg/l

**Sodium Benzoate (CAS: 532-32-1)**

**DNEL**
- Industry Dermal Long Term Systemic Effects: 34.7 mg/kg/day
- Consumer Dermal Long Term Systemic Effects: 20.8 mg/kg/day
- Industry Inhalation. Long Term Systemic Effects: 10.4 mg/kg/day
- Consumer Inhalation. Long Term Systemic Effects: 2.1 mg/m³
- Consumer Oral Long Term Systemic Effects: 25 mg/kg/day
- Industry Inhalation. Long Term Local Effects: 6.3 mg/m³
- Consumer Inhalation. Long Term Local Effects: 1.3 mg/m³

**TEXANOL (CAS: 25265-77-4)**

**DNEL**
- Oral Long Term: 8.3 mg/kg/day
- Professional Inhalation. Long Term: 49 mg/m³
- Consumer Inhalation. Long Term: 14.5 mg/m³
- Professional Dermal Long Term: 13.9 mg/kg/day
- Consumer Dermal Long Term: 8.3 mg/kg/day

**PNEC**
- Freshwater: 0.015 mg/l
- Marinewater: 0.0015 mg/l
- Intermittent release: 0.15 mg/l
- Sediment (Freshwater): 0.17 mg/kg
- Sediment (Marinewater): 0.017 mg/kg
- Soil: 0.13 mg/kg
- STP: 7.5 mg/l

### 8.2. Exposure controls

**Protective equipment**

**Engineering measures**
- Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

**Respiratory equipment**
- No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

**Hand protection**
- Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

**Eye protection**
- Wear approved, tight fitting safety glasses where splashing is probable.

**Other Protection**
- Wear appropriate clothing to prevent reasonably probable skin contact.

**Hygiene measures**
- No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**
9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>Viscous Coloured liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Light (or pale), Green.</td>
</tr>
<tr>
<td>Odour</td>
<td>Mild.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Miscible with water</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.3 - 1.4 @ 20 C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>2.5 (Rotothinner) Ps @ 25 C</td>
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9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volatile Organic Compound (VOC)</td>
<td>22 g/litre</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
No specific reactivity hazards associated with this product.

10.2. Chemical stability
Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions
Not determined.

10.4. Conditions to avoid
Avoid heat, flames and other sources of ignition. Avoid contact with acids and oxidising substances.

10.5. Incompatible materials
Materials To Avoid

10.6. Hazardous decomposition products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Toxicological information
No data recorded.

General information
No specific health warnings noted.

Inhalation
No specific health warnings noted.

Ingestion
No harmful effects expected in amounts likely to be ingested by accident.

Skin contact
Prolonged contact may cause dryness of the skin.

Eye contact
May cause temporary eye irritation.

Health Warnings
This product has low toxicity. Only large volumes may have adverse impact on human health.
Section 12: Ecological Information

Ecotoxicity

There are no data on the ecotoxicity of this product.

12.1. Toxicity

12.2. Persistence and degradability

Degradability
The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential
No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:
The product contains substances, which are water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Not determined.

Section 13: Disposal Considerations

General Information
Do not allow to enter drains, sewers or watercourses. Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13.1. Waste treatment methods

Do not allow runoff to sewer, waterway or ground.

Waste Class
When this coating, in its liquid state, as supplied, becomes a waste, it is categorised as non-hazardous waste, with code 08 01 12 (WATER BASED LIQUID WASTE). Part used containers, not drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 08 01 12 (WATER BASED LIQUID WASTE). If mixed with other wastes, the above waste code may not be applicable. Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging).

Section 14: Transport Information

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

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

Environmentally Hazardous Substance/Marine Pollutant No.

14.6. Special precautions for user

No information required.

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

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments


Approved Code Of Practice


Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation


National Regulations


15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

Issued in new format for Reach compliance in accordance with EC 1272/2008 Issued in accordance with Annex II to REACH, as amended by Commission Regulation (EU) No. 453/2010 Update for CLP labelling.

Issued By

Technical Dept. (P.E.)

Revision Date

30/05/2015

Revision

1

Supersedes date

27/11/2012

SDS No.

11416

Safety Data Sheet Status

Approved.

Date

Date printed ____________________

Signature

Initials ____________________
SPO/W463 - LUMINOUS PAINT

Risk Phrases In Full
R34    Causes burns.
R35    Causes severe burns.
R31    Contact with acids liberates toxic gas.
R37    Irritating to respiratory system.
NC     Not classified.
R50    Very toxic to aquatic organisms.

Hazard Statements In Full
H314   Causes severe skin burns and eye damage.
EUH031  Contact with acids liberates toxic gas.
H335   May cause respiratory irritation.
H400   Very toxic to aquatic life.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.