



1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

1.1 Product Identifier

Product Name: Wax
REACH Registration No: n/a
Synonyms: n/a
Trade Names:
Wax Bead 110 Aqua, Wax Bead 125 Aqua, Wax Bead 210 Aqua,
Wax Bead R4W Pale Pink, Wax Bead 525 Aqua, Wax Bead 525
Burgundy, Wax Bead 528 Aqua, Wax Bead 530 Electro Plate Pink,
Wax Bead 531C Flexi Blue, Wax Bead 533WS Aqua,
Premium R32WP Blue, R33WS, Premium R34WF Flexi Blue,
Premium R35WF Sturdy Green, Premium R36WF Finest Filigree Pink
Premium R37WF Aqua, Premium R37WF Burgundy, Premium R37WF Turquoise,
Premium R38WF Carving Purple, R39WJ Pink, Wax Bead 110 Burgundy,
R866 Blue, R866 Aqua, R863 Pink, R1, R48

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

Main Applications (non exhaustive list):
Used in the lost wax casting industry.

1.3 Details of the supplier of the Safety Data Sheet

Company Name: Goodwin Refractory Services Ltd
Address: Spencroft Road, Newcastle under Lyme,
Staffordshire, ST5 9JE, UK
Phone No. +44 (0)1782 663600
Fax No. +44 (0)1782 663611
Email address: info@grscastingpowders.com

1.4 Emergency telephone number:

Emergency Telephone No. +44 (0)1782 663600
Available outside office hours? No

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

This product does not contain any components which are hazardous according to CLP Regulation 1272/2008 EC. Material does not meet the criteria for PBT or vPvB in accordance with REACH annex XIII. This material is exempt from REACH.

2.2 Label elements:

This product does not require a hazard warning label in accordance with Dangerous Substance Directive (67/548/EEC) or CLP Regulation 1272/2008 EC.

Hazard Pictogram: None
Signal Word(s): None
Hazard Statements: None
Precautionary Statements: None

2.3 Other Hazards:

None

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixture

Contains a propriety blend of:

	CAS #	WEL	%
Paraffin Wax	8002-74-2	2 mg/m ⁻³	<70
Resins	n/a	n/a	<20
Polymers	n/a	n/a	<30

4. FIRST AID MEASURES

4.1 Description of first aid measures:

Eye Contact: Remove any contact lenses. Hold eye lids apart and rinse thoroughly with plenty of water for at least 15 minutes. If irritation persists seek medical advice.
Hot Molten Liquid: Immediately cool burns with plenty of cold water. Seek medical advice.

Inhalation: Move exposed person to fresh air immediately and seek medical advice.

Ingestion: **DO NOT** induce vomiting, seek medical advice.

Skin Contact: Take off contaminated clothing. Wash off with soap and water. Seek medical advice.
Hot Molten Liquid: Immediately cool skin with cool water. **DO NOT** put ice directly onto the skin. **DO NOT** attempt to remove solidified wax from the skin as severe tissue damage may result. Seek medical advice.



4.2 Most important symptoms and effects both acute and delayed

4.2.1 Potential acute health effects:

- Eye Contact: May cause slight irritation to eyes.
Inhalation: Over-heated wax can produce fumes which may be irritant when breathed in.
Ingestion: No known significant effects or critical hazards.
Skin Contact: May cause slight irritation to skin.

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

In contact with or splashed by hot molten liquid:

- Skin Contact: Cool the skin immediately with cool water. Treat burns according to their severity. To avoid damage to the skin no attempt should be made to remove the wax firmly adhering to the skin. Seek medical advice.
Eye Contact: Cool the area immediately with cold water. Seek medical advice.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:

No specific extinguishing media is needed.

5.2 Special hazards arising from the substance or mixture:

During a fire, toxic gasses (carbon monoxide, nitrous gasses) may be generated by thermal decomposition or combustion.

5.3 Advice for firefighters:

Only suitable trained personnel should attempt to tackle fires. Wear self-contained Respiratory Protective Equipment and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective and emergency procedures:

Surfaces may become slippery after spillage.

6.2 Environmental precautions:

Water may be used to flush spills away from sources of ignition. DO NOT allow the product to enter public drainage system or open water sources.

6.3 Methods and material for containment and cleaning up:

Absorb and scrape up. Absorbent Material; sand or active clay.

6.4 Reference for other sections:

See sections 7, 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Avoid skin contact. Avoid inhalation of vapour, mist or fumes. Avoid dust creation when product at ambient temperature. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool dry place and keep packaging sealed when not in use.

7.3 Specific end use(s):

No data available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust and respirable dust).

In the UK the WEL (Workplace Exposure Limit) for Paraffin Wax is 2 mg/m^{-3} measured as an 8 hour TWA (Time Weighted Average). However in all circumstances exposure should be kept as low as reasonably possible by suitable and sufficient ventilation and safe working practices. For the equivalent limits in other countries consult your local regulatory authority.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Provide exhaust ventilation or other engineering controls to keep any airborne concentrations of vapours, mist or dusts below the recommended exposure limits. An eye wash station should be located near the work station.

8.2.2 Personal protective equipment:

- Eye / face protection: Face shield required when handling hot material. Use equipment for eye protection tested and approved under appropriate standards.
- Skin protection: Use heat resistant clothing such as an apron when handling hot material. Appropriate protection (e.g. protective clothing, barrier cream) is recommended for employees who suffer from dermatitis or sensitive skin.
- Hand protection: Heat resistant gloves required when handling hot material. Appropriate protection (e.g. gloves, barrier cream) is recommended for employees who suffer from dermatitis or sensitive skin.

Respiratory protection: The need for respiratory equipment is not anticipated under normal conditions with adequate ventilation.



8.2.3 Environmental exposure controls:
N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance: Coloured flakes/pellets/beads
Odour: Faint paraffin odour
pH: Neutral
Melting point: 70°C
Boiling point: 230°C
Flash point: No data available.
Relative density: No data available.
Water solubility: Non soluble

9.2 Other information:
N/A

10. STABILITY AND REACTIVITY

10.1 Reactivity: Not reactive under normal storage & handling conditions. See Section 7
10.2 Chemical Stability: Stable under normal storage & handling conditions.
10.3 Possibility of hazardous reactions: No specific hazardous reactions are expected to occur.
10.4 Conditions to avoid: Heat and open flames.
10.5 Incompatible materials: May react with strong oxidants.
10.6 Hazardous decomposition products: Thermal decomposition or incomplete combustion may produce Carbon monoxide.

11. TOXICOLOGY INFORMATION

11.1 Information on toxicology effects:

- a) Acute toxicity:
Non toxic, relatively harmless and non irritating under normal usages.
- b) Skin corrosion/irritation:
Unlikely to cause skin irritation.
- c) Serious eye damage/irritation:
Unlikely to cause eye irritation.
- d) Respiratory or skin sensation:
Not volatile. It is not likely to be an inhalation hazard at normal ambient temperatures.
- e) Germ cell mutagenicity:
Based on available data, the classification is not met.
- f) Carcinogenicity:
Based on available data, the classification is not met.
- g) Reproductive toxicity:
Based on available data, the classification is not met.
- h) STOT-single exposure:
Based on available data, the classification is not met.
- i) STOT-repeated exposure:
Based on available data, the classification is not met.

12. ECOLOGICAL INFORMATION

12.1 Toxicity: No known significant effects.
12.2 Persistence and degradability: No data available.
12.3 Bioaccumulative potential: No data available.
12.4 Mobility in soil: No data available.
12.5 Results of PBT and vPvB assessment: Does not fulfill the criteria for being classed as a PBT or vPvB substance.
12.6 Other adverse effects: No specific adverse effects known



13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Where possible, recycling is preferable to disposal. This should be carried out in compliance with local regulations.

14. TRANSPORT INFORMATION

- | | |
|---|----------------------|
| 14.1 UN Number: | No data available. |
| 14.2 UN proper shipping name: | No data available. |
| 14.3 Transport hazard class(es): | |
| ADR: | Not dangerous goods. |
| IMDG: | Not dangerous goods. |
| ICAO/IATA: | Not dangerous goods. |
| RID: | Not dangerous goods. |
| 14.4 Packing group: | No data available. |
| 14.5 Environmental hazards: | No data available. |
| 14.6 Special precautions for user: | No data available. |
| 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: | No data available. |

15. REGULATORY INFORMATION

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

International legislation/requirements:

Regulation 1907/2006 (REACH):

This product is not classified as dangerous.

European Community Labeling:

This product is not classified as dangerous.

15.2 Chemical safety assessment:

Chemical safety assessments for mixture were not carried out.

16. OTHER INFORMATION

Training:

Employees must be trained in the proper use and handling of this product as required under applicable regulations.

Guidance Books:

EH40/2005 - Workplace Exposure Information
EH44/1997 - Dust: General Principles of Protection
HSG37 - An Introduction to Local Exhaust Ventilation

Liability:

Such information given on this safety data sheet is to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users responsibility to satisfy itself as to the suitability and completeness of such information for their own particular use.

Indication of the changes made to the previous revision of the SDS:

Rev 1 - First Issue.
Rev 2 - Trade names added.
Rev 3 - 525 Burgundy added
Rev 4 - R39WJ Added
Rev 5 - R37WF- Ruby changed to Burgundy
Rev 6 - 110 Burgundy Added
Rev 7 - R866 Blue & R863 Pink Added
Rev 8 - Removal of reference to **Regulation (EC) 453/2010**
Rev 9 - New information e mail address
Rev 10- Changes to layout of document
Rev 11 - Addition of R866 Aqua
Rev 12 - Amendment to section 10.6 and 11.1(d)
Rev 13- Added R1, R48
Rev 14- Amend to define REACH status.