

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: KTC, IR53, IR52, IR49, IR39

This SDS covers the above trade names in the below colors:

Aqua, Burgundy, Pale pink (UK), Pink, Green, Blue, Magenta, Red

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 India Private Limited
Address: 39/5, Old Mahabalipuram Road, Kalavakkam Village, Thiruporur- 603110, Tamilnadu, India
Phone No. +91 44 47439950
Fax No. +91 44 47439990
Email address: info@grs-india.com

1.4 Emergency telephone number:

Emergency Telephone No. +91 44 4743 9950
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.

2.2 Label elements:

This product does not require a hazard warning label in accordance with CLP Regulation 1272/2008 EC.

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

2.3 Other Hazards:

Physical/ Chemical hazards:

Contact with hot material can cause thermal burns which may result in permanent damage. Material can accumulate static charges which may cause an ignition. Spilled pellets present a slipping hazard on hard surfaces.

Health Hazards:

If dust is generated, it could scratch the eyes and cause minor irritation to the respiratory tract. No adverse effects due to inhalation are expected. When heated, the vapour/fumes given off may cause respiratory tract irritation.

Environmental Hazards:

No significant hazards. Material does not meet the criteria for PBT or vPvB in accordance with REACH annex XIII.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixture

Contains a propriety blend of:

	CAS #	%
Paraffin Wax	8002-74-2	<70
Resins	n/a	<20
Polymers	n/a	<30

4. FIRST AID MEASURES

4.1 Description of first aid measures:

- Eye Contact: Flush thoroughly with water for at least 15 minutes. Get medical assistance.
- Inhalation: At ambient/ normal handling temperatures, no adverse effects due to inhalation of dust are expected. In the case of adverse exposure to vapours and/ or aerosols formed at elevated temperatures, immediately remove the affected victim from exposure/ Administer artificial respiration if breathing is stopped. Keep at rest.
- Ingestion: No adverse effects due to ingestion are expected.
- Skin Contact: Wash contact areas with soap and water. For hot product: Immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.

4.2 Most important symptoms and effects both acute and delayed

No important symptoms or effects.

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

The need to have special means for providing specific and immediate medical treatment available in the workplace is not expected.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames. DO NOT use straight streams of water.

5.2 Special hazards arising from the substance or mixture:

Flammable hydrocarbons, incomplete combustion products, oxides of carbon, smoke, fume.

5.3 Advice for firefighters:

Fire fighting instructions: Assure an extended cooling down period to prevent re-ignition. Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus. Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual fire hazards: Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentration and in the presence of an ignition source is a potential dust explosion hazard.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective and emergency procedures:

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

6.2 Environmental precautions:

Prevent entry into waterways, sewers, basements or confined spaces.

6.3 Methods and material for containment and cleaning up:

Land spill: Spilled pellets present a slipping hazard on hard surfaces. Small, dry spills: With a clean shove, place material into clean, dry container and cover loosely, move containers from spill area.

Water spill: Stop leak if you can do so without risk. Confine the spill immediately with booms. Skim from surface.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Minimise dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

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):

Section 1 informs about identified intended uses.

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:

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider: Adequate ventilation should be provided so that exposure limits are not exceeded. Should significant vapours/ fumes be generated during thermal processing of this product, it is recommended that work stations be monitored for the presence of thermal degradation by products which may evolve at elevated temperature (for example, oxygenated components).

8.2.2 Personal protective equipment:

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal use.

Respiratory protection: If engineering controls do not maintain airborne containment concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate.

Hand protection: The types of gloves to be considered for this material include: If product is hot- thermally protective, chemical resistant gloves are recommended.

Eye protection: If contact is likely, safety glasses with side shields are recommended.

Skin and body protection: The types of clothing to be considered for this material include: If product is hot– thermally protective, chemical resistant apron and long sleeves recommended.



8.2.3 Environmental exposure controls:

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

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:

No other information.

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:	Prolonged exposure to 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, nitrous gasses and irritating fumes.

11. TOXICOLOGY INFORMATION

11.1 Information on toxicology effects:

- Acute toxicity:
Non toxic, relatively harmless and nor irritating under normal usages.
- Skin corrosion/irritation:
Unlikely to cause skin irritation.
- Serious eye damage/irritation:
Unlikely to cause eye irritation..
- Respiratory or skin sensation:
It is not likely to be an inhalation hazard at normal ambient temperatures. If overheated, fumes and vapours are irritating to the breathing passage and lungs.
- Germ cell mutagenicity:
Based on available data, the classification is not met.
- Carcinogenicity:
Based on available data, the classification is not met.
- Reproductive toxicity:
Based on available data, the classification is not met.
- STOT-single exposure:
Based on available data, the classification is not met.
- 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:

Disposal recommendations bases on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at the time of disposal.

Suitable routes of disposal are supervised incineration, preferentially with energy recovery, or appropriate recycling methods in accordance with applicable regulations and material characteristics at the time of disposal.

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 1272/2008:

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 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.

10/10/2022 Rev 2– Update to address and products.

23/02/2023– Rev 3– Update to change to GRS India