

# SAFETY DATA SHEET


ORACLE THERMOSETTING POWDER COATING

16-section format per GHS Rev. 9 / Regulation (EC) 1272/2008 - India MSIHC Rules 1989

## SECTION 1: Identification of the Substance / Mixture and of the Company

|                         |   |
|-------------------------|---|
| 1.1 PRODUCT IDENTIFIER  |   |
| PRODUCT NAME            | Oracle Thermosetting Powder Coating   |
| PRODUCT CATEGORY        | Industrial Thermosetting Powder Paint   |
| PRODUCT TYPE            | Protective & Decorative Powder Coating  |
| PHYSICAL FORM           | Fine free-flowing powder  |
| HSN CODE                | 39073010  |
| APPLICABLE FINISHES     | Gloss, Semi-Gloss, Matt, Texture, Metallic, Wrinkle, Hammertone, Special Effects  |
| 1.2 IDENTIFIED USES     | Electrostatic powder coating for protective & decorative finishing. Industrial and professional use only.   |
| USES ADVISED AGAINST    | No specific uses advised against are identified.  |
| 1.3 SUPPLIER            | <b>Oracle Industries</b><br>W-59, Additional MIDC, Satara - 415004, Maharashtra, India<br>Tel: +91 86559 96999   Email: oracleindustries94@gmail.com   Web: www.oracleindustries.in |
| 1.4 EMERGENCY TELEPHONE | +91 86559 96999   |

## SECTION 2: Hazards Identification

|   |  |
|---|--|
| 2.1 CLASSIFICATION (GHS / EC 1272/2008) |  |
| PHYSICAL HAZARDS                        | Not classified as hazardous under normal conditions. Combustible dust may form explosive dust-air mixtures (Dust Explosion Class ST1).   |
| HEALTH HAZARDS                          | Eye Irritation Category 2B; Specific Target Organ Toxicity – Single Exposure (STOT SE) Category 3 (respiratory irritation).  |
| ENVIRONMENTAL HAZARDS                   | Not classified as environmentally hazardous.   |
| 2.2 LABEL ELEMENTS                      |  GHS07  |
| SIGNAL WORD                             | <b>WARNING</b>   |
| HAZARD STATEMENTS                       | <b>H320</b> Causes eye irritation.<br><b>H335</b> May cause respiratory irritation.<br><b>EUH212</b> Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.  |
| PRECAUTIONARY STATEMENTS                | <b>P261</b> Avoid breathing dust.<br><b>P271</b> Use only outdoors or in a well-ventilated area.<br><b>P280</b> Wear protective gloves and eye protection.<br><b>P304+P340</b> IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br><b>P305+P351+P338</b> IF IN EYES: Rinse cautiously with water for several minutes.<br><b>P501</b> Dispose of contents / container in accordance with local regulations. |
| 2.3 OTHER HAZARDS                       | Organic powder; airborne dust may be combustible. Does not meet PBT / vPvB criteria.   |

### SECTION 3: Composition / Information on Ingredients

Mixture. Typical thermosetting (polyester) powder coating composition:

| INGREDIENT                  | CAS NO.     | CONCENTRATION |
|-----------------------------|-------------|---------------|
| Carboxyl polyester resin    | Proprietary | 50–65%        |
| TGIC-free crosslinker (HAA) | Proprietary | 4–8%          |
| Titanium dioxide            | 13463-67-7  | 15–30%        |
| Barium sulphate             | 7727-43-7   | 5–20%         |
| Flow modifier               | Proprietary | 0.5–2%        |
| Benzoin (degassing agent)   | 119-53-9    | 0.2–1%        |
| Silica additive             | 112926-00-8 | 0.1–1%        |

Exact resin/crosslinker identities are proprietary. Pigment loading varies by shade. Full text of hazard statements appears in Section 16.

### SECTION 4: First-Aid Measures

|                   |  |
|-------------------|--|
| GENERAL           | Remove from source of exposure. When in doubt or if symptoms persist, seek medical attention and show this SDS.  |
| INHALATION        | Remove person to fresh air and keep comfortable for breathing. Get medical attention if irritation persists.   |
| EYE CONTACT       | Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing; seek medical attention if irritation persists. |
| SKIN CONTACT      | Brush off loose particles. Wash with soap and water. Get medical attention if irritation develops.   |
| INGESTION         | Rinse mouth with water. Do not induce vomiting. Contact medical personnel.   |
| MAIN SYMPTOMS     | Dust may cause temporary eye, nose, throat and skin irritation.  |
| MEDICAL ATTENTION | Treat symptomatically.   |

### SECTION 5: Fire-Fighting Measures

|                              |  |
|------------------------------|--|
| SUITABLE EXTINGUISHING MEDIA | Carbon dioxide, dry chemical powder, foam, or water fog. Use media suitable for the surrounding fire.  |
| UNSUITABLE MEDIA             | Do not use a heavy / direct water jet (may disperse dust and spread fire).   |
| SPECIAL HAZARDS              | Organic powder; suspended dust can form an explosive dust-air mixture (ST1). Thermal decomposition may release carbon monoxide, carbon dioxide, nitrogen oxides, aldehydes and phenolic compounds. |
| ADVICE FOR FIRE-FIGHTERS     | Wear self-contained breathing apparatus (SCBA) and full protective clothing. Maintain dust control and good housekeeping.  |

### SECTION 6: Accidental Release Measures

|                           |  |
|---------------------------|--|
| PERSONAL PRECAUTIONS      | Avoid dust generation; do not breathe dust. Avoid contact with eyes, skin and clothing. Wear PPE per Section 8.  |
| ENVIRONMENTAL PRECAUTIONS | Prevent product from entering drains, surface water or soil.   |
| CONTAINMENT & CLEANING UP | Avoid raising dust. Sweep up gently or use a (dust-rated) vacuum cleaner and place in suitable labelled containers for disposal. Avoid dry sweeping that disperses dust. |
| REFERENCE                 | See Section 8 (PPE), Section 11 (health), Section 13 (disposal).   |

### SECTION 7: Handling & Storage

|                  |  |
|------------------|--|
| SAFE HANDLING    | Minimise dust generation and avoid free fall of powder. Keep away from heat, sparks, open flames and direct sunlight. Provide explosion-proof ventilation where dust may accumulate. Keep container closed when not in use. Do not eat, drink or smoke while handling. |
| SAFE STORAGE     | Store in a cool, dry, well-ventilated area below 30°C. Keep containers closed and protected from moisture. Stacking limit: 20 kg box – 4 nos; 10 kg box – 5 nos.   |
| SHELF LIFE       | 6 months from date of manufacture when stored as above.  |
| SPECIFIC END USE | Industrial / professional powder coating application.  |

### SECTION 8: Exposure Controls / Personal Protection

| MATERIAL               | OCCUPATIONAL EXPOSURE LIMIT (OEL) |
|------------------------|-----------------------------------|
| Total (inhalable) dust | 10 mg/m <sup>3</sup> (8h TWA)     |
| Respirable dust        | 3 mg/m <sup>3</sup> (8h TWA)      |
| Titanium dioxide       | 10 mg/m <sup>3</sup>              |
| Amorphous silica       | 6 mg/m <sup>3</sup>               |

#### ENGINEERING CONTROLS

Provide adequate local exhaust and general ventilation; equipment should be explosion-proof. Vent curing ovens to prevent release of off-gases.



Safety Goggles



Dust Mask / Respirator



Protective Gloves



Protective Clothing



Safety Shoes

### SECTION 9: Physical and Chemical Properties

|                      |  |
|----------------------|--|
| APPEARANCE           | Fine free-flowing powder                     |
| COLOUR               | Various shades                               |
| ODOUR                | Odourless                                    |
| PH                   | Not applicable                               |
| RELATIVE DENSITY     | 1.30 – 1.75 g/cm <sup>3</sup>                |
| PARTICLE SIZE        | D50 = 35–45 µm                               |
| MELTING RANGE        | 95–120°C                                     |
| CURE SCHEDULE        | 180°C / 15 min or 200°C / 10 min             |
| SOLUBILITY IN WATER  | Insoluble                                    |
| VOC CONTENT          | 0%   |
| FLASH POINT          | Not applicable (decomposes without flashing) |
| DUST EXPLOSION CLASS | ST1 (organic dust)                           |

### SECTION 10: Stability and Reactivity

|                                  |  |
|----------------------------------|--|
| REACTIVITY                       | Not reactive under normal conditions.  |
| CHEMICAL STABILITY               | Stable under recommended storage and handling conditions.                        |
| HAZARDOUS REACTIONS              | None known under normal use.   |
| CONDITIONS TO AVOID              | Excessive heat, ignition sources, and dust accumulation.                         |
| INCOMPATIBLE MATERIALS           | Strong oxidizing agents, strong acids, strong alkalis.                           |
| HAZARDOUS DECOMPOSITION PRODUCTS | Carbon monoxide, carbon dioxide, nitrogen oxides, aldehydes, phenolic compounds. |

### SECTION 11: Toxicological Information

|                           |  |
|---------------------------|--|
| ACUTE TOXICITY            | Not classified. LD50 (oral) ≈ 5000 mg/kg (estimated); LD50 (dermal) ≈ 2000 mg/kg (estimated).  |
| SKIN IRRITATION           | Mild mechanical irritation possible.   |
| EYE IRRITATION            | Dust may cause temporary irritation (Cat 2B).  |
| RESPIRATORY SENSITISATION | Not expected under normal use; dust may cause respiratory irritation (STOT SE 3).  |
| CARCINOGENICITY           | Titanium dioxide is classified by IARC as Group 2B only when inhaled as respirable dust in high concentrations. Not classified as a carcinogen in this product under normal use. |

| SECTION 12: Ecological Information |   |
|------------------------------------|---|
| AQUATIC TOXICITY                   | Not expected to be toxic to aquatic organisms.        |
| BIODEGRADABILITY                   | Not readily biodegradable.                            |
| BIOACCUMULATION                    | Low potential.  |
| MOBILITY IN SOIL                   | Insoluble in water; low mobility.                     |
| PBT / VPVB                         | Does not meet PBT or vPvB criteria.                   |
| OTHER ADVERSE EFFECTS              | Do not allow to enter soil, waterways or waste water. |

| SECTION 13: Disposal Considerations |  |
|-------------------------------------|--|
| WASTE TREATMENT                     | Minimise waste generation. Dispose of product and containers in accordance with local, state and national regulations. Do not empty into drains. Where recycling is not feasible, dispose via a licensed waste contractor. |
| CONTAMINATED PACKAGING              | Empty containers may retain residue; handle with the same precautions as the product.  |

| SECTION 14: Transport Information |                         |
|-----------------------------------|-------------------------|
| PARAMETER                         | VALUE                   |
| UN Number                         | Not regulated           |
| Proper Shipping Name              | Powder Coating Material |
| Transport Hazard Class            | Not classified          |
| Packing Group                     | Not applicable          |
| Marine Pollutant                  | No                      |
| ADR / RID                         | Not dangerous goods     |
| IMDG (Sea)                        | Not dangerous goods     |
| IATA (Air)                        | Not dangerous goods     |

Classified as **NON-DANGEROUS GOODS** for road, sea and air transport.

| SECTION 15: Regulatory Information |   |
|------------------------------------|---|
| APPLICABLE REGULATIONS             | GHS Rev. 9; The Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 (India); Factories Act, 1948; REACH (EC 1907/2006, where applicable); CLP Regulation (EC 1272/2008); ISO 9001:2015 Quality Management Systems. |
| CHEMICAL SAFETY ASSESSMENT         | Not carried out for the mixture.  |

| SECTION 16: Other Information |   |
|-------------------------------|---|
| ISSUE / REVISION              | Issue No. 01 · Revision 00 · Date of issue 31 May 2026  |
| FULL TEXT OF H-STATEMENTS     | H320 Causes eye irritation. H335 May cause respiratory irritation. EUH212 Warning! Hazardous respirable dust may be formed when used – do not breathe dust.   |
| ABBREVIATIONS                 | SDS = Safety Data Sheet; GHS = Globally Harmonized System; OEL = Occupational Exposure Limit; TWA = Time-Weighted Average; STOT SE = Specific Target Organ Toxicity, Single Exposure; CAS = Chemical Abstracts Service; PBT = Persistent, Bioaccumulative & Toxic; vPvB = very Persistent & very Bioaccumulative; VOC = Volatile Organic Compound; HAA = Hydroxyalkylamide. |
| DISCLAIMER                    | Information herein is based on data believed accurate and on standard thermosetting powder coating practice. It is provided as guidance for safe handling, use and disposal and does not constitute a warranty. The user is responsible for determining suitability for their own use and for compliance with applicable regulations.                                       |

**STORAGE & HANDLING SYMBOLS**



Store Below 30°C



Keep Container Closed



Protect From Moisture



Keep From Sunlight



Keep From Heat / Flame



Industrial Use Only



Dust Hazard

**KEY SAFETY SUMMARY (QUICK REFERENCE)**

SIGNAL WORD

**WARNING**

MAIN HAZARDS

**Eye irritation; respiratory irritation from dust; combustible dust.**

TRANSPORT

**Non-dangerous goods (road / sea / air).**

REQUIRED PPE

**Goggles, dust mask/respirator, gloves, protective clothing, safety shoes.**

STORAGE

**Cool, dry, below 30°C; keep closed, away from heat & sunlight.**

KEY RESPONSE

**Avoid breathing dust; rinse eyes with water; ventilate work area.**

**REVISION HISTORY**

| REVISION | DATE        | DESCRIPTION OF CHANGE  | PREPARED / REVIEWED             |
|----------|-------------|--|---------------------------------|
| 00       | 31 May 2026 | First issue. Classification and composition confirmed by reviewing powder coating chemist. | Oracle Industries R&D / Quality |

**TERMS, CONDITIONS & CONDITIONS OF USE**

|                           |   |
|---------------------------|---|
| INTENDED USE              | This product is supplied for industrial and professional powder coating applications only. It is not intended for domestic use, food-contact surfaces, medical, or any application not expressly described in Section 1.2.  |
| APPLICATOR RESPONSIBILITY | The applicator is responsible for verifying substrate preparation, pre-treatment, film thickness, cure schedule and final coating performance against the relevant Technical Data Sheet (TDS) and project specification. Trial panels should be approved before full production.  |
| CONDITIONS OF SUPPLY      | Product is sold subject to Oracle Industries' standard terms of sale. Shade, gloss and finish may show minor batch-to-batch variation within accepted industry tolerances; production must be matched to an approved reference sample.  |
| SHELF LIFE & STORAGE      | Use within the stated shelf life of 6 months from manufacture when stored sealed, cool, dry and below 30°C. Product stored outside these conditions or beyond shelf life should be re-tested before use.  |
| LIMITATION OF LIABILITY   | Information and recommendations are given in good faith based on current knowledge but without warranty, as conditions of use are beyond Oracle Industries' control. Oracle Industries' liability is limited to the quality of the product as supplied and is in accordance with applicable product-liability law. The user assumes all risk associated with use, handling and storage. |
| DOCUMENT CONTROL          | This SDS is a controlled document. It may be reproduced only in full and without alteration. Unauthorized editing voids its validity. The current version is available from Oracle Industries on request.   |

This Safety Data Sheet is valid from the date of issue and supersedes all previous versions. **Review at least every 3 years** or whenever the formulation, classification or applicable regulations change. For the latest version, contact Oracle Industries.

**Disclaimer:** This Safety Data Sheet has been prepared in the 16-section GHS format based on information supplied by Oracle Industries and the reviewing powder coating chemist, and on standard thermosetting powder coating practice. It is provided as guidance for safe handling, use and disposal and does not constitute a warranty of any kind. Final determination of suitability for any use is the responsibility of the user. Oracle Industries is responsible for the accuracy of the product data declared herein.



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