

1. PRODUCT & COMPANY IDENTIFICATION

- **Product Detail:**

Product name: HIGHGUARD-2053

Physical form: Liquid

Odour: Odourless

Colour: Grey/Red oxide/ Customized

CAS No.:

- **Company Details:**

Manufacturer: Highbond Coatings Pvt Ltd

Address: Sr. No. 70/2B/1, Flat No 101 & 102,
Purushottam Villa, Vadgaon Bk,
Pune – 411041

Tel: +91 9370953995

Email: info@highbondcoatings.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

Acute toxicity, Inhalative,

Category 4 (H332)

Skin irritation, Category 2 (H315)

Eye irritation, Category 2 (H319)

Sensitization of the respiratory airways, Category 1 (H334)

Sensitization of the skin, Category 1 (H317)

Carcinogenicity, Category 2 (H351)

Specific target organ toxicity (single exposure),

Category 3 (H335)

Specific target organ toxicity (repeated exposure),

Category 2 (H373)

2.2 Label elements

GHS-Labeling



Signal word

Danger

Uncured product

Hazard statements:

H226 Flammable liquid and vapor

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H401 Toxic to aquatic life
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.

3. COMPOSITION/HAZARDOUS COMPONENTS

Chemical description: Mixtures

Chemical Name	CAS No.	WT%
Epoxy Resin	85101-00-4	40-50
Glass Flakes	65997-17-3	10-20
Pigment	51274-00-1	1-4
Additive	NA	<2
Reactive Diluents	68609-97-2	<2
Hardener	26950-63-0	25-30

4. FIRST-AID MEASURES

Take off all contaminated clothing immediately.

In case of inhalation: Supply fresh air and to be sure call for a doctor.

In case of ingestion: Do not induce vomiting. Seek medical advice immediately.

In case of skin contact: Wipe with paper towel and immediately clean with water and soap.

In case of eyes contact: Immediately flush with water, seek medical advice if necessary.

Indication of any immediate attention and special treatment needed:

No further relevant information available.

5. FIRE FIGHTING MEASURES

- **Suitable extinguishing media:** Water spray, dry extinguishing media, carbon dioxide or universal foams Contaminated extinguishing water must be disposed of in accordance with local regulations
- **Unsuitable extinguishing media:** High volume water jet
- **Hazardous decomposition:** Carbon dioxide, carbon monoxide, silicone dioxide and nitrogen oxides and formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

- **Small spills:** Slippery when spilt. Avoid accidents, clean up immediately. Wipe up with rag or absorbent paper.
- **Large spills:** Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and

seal in properly labeled containers or drums for disposal. Wash area down with excess water. Cured material can only be removed by cutting or abrasion.

7. HANDLING AND STORAGE

- **Handling:** Avoid contact with eyes and skin. Ensure good ventilation during processing. Wear safety shoes.
- **Protection against fire/ explosion:** General rules of fire prevention should be observed.
- **Storage:** Keep container tightly closed and dry.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ingredients with limited values to be controlled: Not indicated.

Local exhaust: Recommended

General ventilation: Recommended

Hand protection: Suitable protective gloves.

Eye protection: Safety/ protective glasses.

Flammability: Combustible

Note: Until more data is known, exposure levels should be maintained as low as achievable.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Base	Aromatic Amine Based Epoxy Phenolic Coating
Color	Grey/Red oxide/ Customized
Surface Finish	Glossy
Mixing Ratio	2:1 / Volume
Pot Life at 30°C	25 Min @ 300 C
Volume Solid	94 +/-3 %
Thickness	150-200 micron / Coat
Consumption	6.26-4.7 Sq mtr/ltr
Temperature Resistance	95°C Continuous & 180°C Non-Continuous
Recoating Interval	8 hrs.
Drying time @ 30°C	
Touch dry	4 Hours
Hard dry	16 Hours
Full Dry	7 Days
Water permeability	Impermeable
Abrasion Resistance	20 mg/1000 Cycles
Pull of Adhesion	>6 MPa
Compressive Strength	>80 MPa
Tensile Strength	>20 MPa
Salt Spray (ASTM B117)	>2000 Hour
Shelf Life	12 Months

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions

Incompatibility (material to be avoided): Oxidising agents, strong acids, alkalis, Halogens

Conditions to be avoided: High temperatures.

Dangerous reactions: None known.

Dangerous products of decomposition: None known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Not determined

Primary irritant effect,

On the skin:

Irritant for skin and mucous membranes.

On the eye:

Irritant effect

Sensitization:

Sensitization possible by inhalation.

Additional Toxicological information:

Until more data is known, exposure levels should be

Information on toxicological effects

Information on toxicological effects

Acute Toxicity

LD/LC50 values relevant for classification:

1330-20-7 xylene

Oral Dermal

Primary irritant effect:

on the skin: on the eye: Sensitization:

LD50 4300 mg/kg (rat) LD50 2000 mg/kg (rabbit) ·

Irritating. Irritating

Not classified

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity information available.

Persistence and degradability: No further relevant information available

Bio-accumulative potential: No further relevant information available

Mobility in soil: No further relevant information available

General Notes:

Water hazard Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities

Results of PBT and vPvB assessment: Non applicable

Other adverse effects: Avoid release to the environment

No further relevant information available

13. DISPOSAL CONSIDERATION

Incinerate or landfill according to local regulations

14. REGULATORY INFORMATION

Safety, health and environmental regulation/legislation specific for the substance or mixture

The mixture classification is according to CLP Regulation 1272/2008/EC.

Labelling according to Regulation (EC) No 1272/2008 Label elements in Section 2.2

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

It doesn't contain substances of very high concern (SVHC).

Chemical safety assessment: A Chemical Safety Assessment has not been carried out

15. OTHER INFORMATION

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use and determine whether they are appropriate.

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