



SAFETY DATA SHEET (SDS/MSDS)

EPOXY COATED REBAR

Prepared according to GHS (Globally Harmonized System)

SECTION 1: IDENTIFICATION

Product Name

Epoxy Coated Rebar

Product Type

Fusion Bonded Epoxy Coated Reinforcing Steel

Recommended Use

Steel reinforcement for concrete structures requiring enhanced corrosion resistance.

Manufacturer/Supplier

Available upon request.

SECTION 2: HAZARD IDENTIFICATION

GHS Classification

As supplied, the product is considered an article and is generally not classified as hazardous.

Hazards may arise during:

- Cutting
- Grinding
- Welding
- Torch cutting
- Mechanical abrasion



These operations may generate dust, fumes, or particulates that can present health risks.

Potential Health Effects

Eye Contact

Dust particles may cause irritation, redness, and discomfort.

Skin Contact

Sharp edges may cause cuts or abrasions.

Inhalation

Dust or fumes generated during fabrication may cause respiratory irritation.

Ingestion

Not expected under normal industrial use.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration
Carbon Steel	Proprietary	Balance
Fusion Bonded Epoxy Coating	Proprietary	Surface Coating
Pigments & Additives	Proprietary	Minor Components

Exact formulation is proprietary.

SECTION 4: FIRST AID MEASURES

Eye Contact

Flush eyes with clean water for at least 15 minutes.

Skin Contact

Wash with soap and water. Treat cuts and abrasions appropriately.



Inhalation

Move affected person to fresh air.

Ingestion

Rinse mouth. Seek medical attention if symptoms occur.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media

- Water spray
- Foam
- Dry chemical powder
- Carbon dioxide (CO₂)

Specific Hazards

Epoxy coating may decompose under fire conditions and release:

- Carbon monoxide
- Carbon dioxide
- Organic decomposition products

Protective Equipment

Firefighters should wear self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

Not applicable for solid articles.

Collect scrap mechanically and dispose of according to local regulations.

Avoid generating dust during cutting or grinding operations.



SECTION 7: HANDLING AND STORAGE

Handling

- Avoid impact damage to coating.
- Do not drag material across rough surfaces.
- Use appropriate lifting devices.
- Wear gloves and safety footwear.

Storage

- Store on dry supports.
- Protect from moisture accumulation.
- Keep away from corrosive chemicals.
- Maintain coating integrity during storage.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Provide local exhaust ventilation when cutting, grinding, or welding.

Personal Protective Equipment

Eye Protection

Safety glasses or goggles.

Hand Protection

Cut-resistant gloves.

Respiratory Protection

Dust mask or approved respirator where airborne particles are generated.

Foot Protection

Safety footwear.

Body Protection

Protective work clothing.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Green Coated Steel Bar
Physical State	Solid
Color	Green
Odor	None
pH	Not Applicable
Melting Point	Steel >1370°C
Solubility	Insoluble in Water
Density	Approx. 7.85 g/cm ³ (Steel Core)
Flash Point	Not Applicable
Auto-Ignition Temperature	Not Applicable
Explosive Properties	None

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions.

Conditions to Avoid

- Excessive heat
- Open flame
- Mechanical damage to coating

Incompatible Materials

- Strong oxidizing agents
- Strong acids
- Strong alkalis

Hazardous Decomposition Products

Under combustion:



- Carbon monoxide
- Carbon dioxide
- Organic fumes

SECTION 11: TOXICOLOGICAL INFORMATION

Under normal conditions of use, no significant health hazards are expected.

Exposure to dust or fumes generated during fabrication may result in:

- Eye irritation
- Skin irritation
- Respiratory irritation

SECTION 12: ECOLOGICAL INFORMATION

Environmental Impact

Product is not expected to present significant environmental hazards in solid form.

Mobility

Low mobility due to solid metallic structure.

Persistence

Steel is recyclable and recoverable.

SECTION 13: DISPOSAL CONSIDERATIONS

- Recycle steel whenever possible.
- Dispose of coating residues according to local regulations.
- Follow national and regional waste management requirements.



SECTION 14: TRANSPORT INFORMATION

UN Number

Not regulated.

Proper Shipping Name

Not regulated.

Hazard Class

Not regulated.

Packing Group

Not regulated.

Marine Pollutant

No.

SECTION 15: REGULATORY INFORMATION

This product should be used in accordance with applicable local, national, and international regulations governing construction materials and workplace safety.

SECTION 16: OTHER INFORMATION

The information provided in this SDS is based on current knowledge and is intended to describe the product for health, safety, and environmental purposes only. It should not be interpreted as guaranteeing any specific product property or performance characteristic. Users are responsible for determining the suitability of the product for their intended application and for complying with all applicable regulations and standards.



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