

Material Safety Data Sheet Issue Date: 01-11-02		Product Code: VC-142 Vital Steel Epoxy
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1. Identification of the substance/preparation and of the company/undertaking

Product name: VC-142 Vital Steel Epoxy

Company: Vital Technical Sdn. Bhd.
No.7, Jalan Helang Hindik (Jalan 117)
Kepong Baru Industrial Estate
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2. Composition/information on ingredients

Chemical Name	CAS No.	Hazard
Diglycidyl Ether of Bisphenol-A	25068-38-6	Irritant
4-Nonylphenol Branded	84852153	Corrosive
Aminoethylpiperazine	140318	Corrosive
Titanium Dioxide	13463-67-7	Irritant
Hydrous Aluminium Silicate	-	-
Azo dyestuff	-	Non currently known

Further information:

This sheet only contains safety relevant data. For specific data, see Technical Data Sheet.

3. Hazards identification

May cause sensitization by skin contact – irritating to eyes, respiratory system and skin.
Harmful by inhalation, in contact with skin and if swallowed

4. First-aid measures

- Inhalation: Remove to fresh air, keep warm and at rest
- Skin contact: Remove contaminated clothing. Rinse with water and use skin cleaner immediately
- Eye contact: Contact lenses should be removed. Rinse with plenty of water immediately, seek medical advice if necessary
- Ingestion: Seek medical advice immediately. DO NOT induce vomiting

5. Fire-fighting measures

- Suitable extinguishing media: - Use dry chemical powder, foam, carbon dioxide, water fog, sand or earth
- Unsuitable extinguishing media: Do not use water in a jet

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6. Accidental release measures

- Exclude sources of ignition and ventilate the area
- Exclude non-essential personnel. Avoid breathing vapours
- Collect spillages mechanically and store in suitable covered container

7. Handling and storage

- Handling: Ensure good ventilation during processing
- Protection against fire/explosion: General rules of fire prevention should be observed
- Storage: Keep container tightly closed and dry. Store in a well-ventilated area

8. Exposure controls/personal protection

- Industrial hygiene: Remove immediately all contaminated clothing. Do not inhale vapours
- Hand protection: Suitable protective gloves
- Eye protection: Protective goggles

9. Physical and chemical properties

Steel Epoxy Resin

- Form: Viscous liquid
- Color: Black
- Viscosity (25°C): Above 400,000 cps
- Density: 1.7 kg/l
- Boiling temperature: >200°C
- Epoxy Molar Mass: 182 – 197g
- Flash point: >150 °C
- Auto-Ignition Temp: >300°C
- Melting point/range: Viscous liquid at ambient temperature
(Pure diglycidylether of diphenylolpropane melts at 43°C)
- Freezing point: Crystals sometimes separate at room temperature
- Incompatibilities: Reacts with acids and bases
- Solubility in solvents other than water: Readily soluble in various organic solvents
- Solubility in water: Ca.9E+00 mg/l at 23°C immiscible

Steel Epoxy Hardener

- Form: Viscous liquid
- Color: White
- Viscosity (25°C): Above 1,500,000 cps
- Density: 1.5 kg/l
- Amine value: 300 - 335
- Flash point: 200°C
(Cleveland open cup ASTM-D92)

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10. Stability and reactivity

- Hazardous decomposition products: None
- Hazardous reaction: No dangerous reactions known

11. Toxicological information

- Skin: May cause sensitization
- Eyes: Possibility irritating

12. Ecological information

Large quantities of product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface water

13. Disposal considerations

Do not allow large quantities to enter the drains or water courses or dispose of where ground or surface waters may be affected. Residue in emptied containers should be covered and should be disposed of in accordance with regulations made under the control of Pollution & Environment Protection Acts.

14. Transport information

DOT Hazardous Materials:

- Corrosive: 140318 Aminoethylpiperazine
- UN/NA: UN3267

15. Regulatory information

The product is classified and labeled for supply in accordance with the Classification Of Hazardous Chemical. Regulations as follow:-

Classification	Harmful Flammable Irritant to skin
R-phrases 43	May causes sensitization by skin contact
36/38	Irritant to skin
R51/53	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
S-phrases Z	Keep out of reach of children
28	After contact with skin, wash immediately with plenty of water
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
27	Take off immediately all contaminated clothing
37	Wear suitable gloves
46	If swallowed, seek medical advice immediately and show this container or label

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16. Other information

The details contained herein are based on our present state of knowledge and experience are characterize our product with regard to any possible safety requirement. We do, however, pass them on without any warranty or property assurances.