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| Material Safety Data Sheet Issue Date: 01-06-04 |  | Product Code: VC-153 / VC-165 Vital Copper RTV |
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1. Identification of the substance/preparation and of the company/undertaking

Product name: VC-153 / VC-165 Vital Copper RTV

Company: Vital Technical Sdn. Bhd.
No.7, Jalan Helang Hindik (Jalan 117)
Kepong Baru Industrial Estate
52100 Kuala Lumpur, Malaysia

Tel: +603-62734088
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Email: sales@vitaltechnical.com
Website: www.vitaltechnical.com

2. Composition/information on ingredients

| Component | CAS No. | Wt% | Exposure Limits |
|---|-----------|-----|--|
| Silica, Amorphous | 007631869 | 11 | OSHA PEL: TWA 15mg/m ³ total dust, 5mg/m ³ respirable fraction. ACGIH TLV: TWA 10mg/m ³ respirable particulate |
| Methyl tri (ethylemethylketoxime silane) | 22984549 | 6 | See ethyl methylketoxime comments |
| Barium Sulfate | 007727437 | 1 | OSHA PEL and ACGIH TLV, as chromium: TWA 0.5mg/m ³ |
| Iron Oxide | 001309371 | 8 | OSHA PEL (final rule) (fume):TWA 10mg/m ³ ACGIH TLV (fume), as iron: TWA 5mg/m ³ |
| Black Iron Oxide | 001317619 | 8 | OSHS PEL (final rule) (fume):10mg/m ³ . ACGIH TLV (fume), as iron: TWA 5mg/m ³ |
| Titanium Dioxide | 013463677 | 8 | OSHA PEL (final rule): TWA 10mg/m ³ total dust. ACGIH TLV: TWA 10mg/m ³ |
| C.I Pigment Blue 29 | 057455375 | 7 | OSFA PEL: TWA 15mg/m ³ total dust, 5mg/m ³ respirable fraction. ACGIH TLV: TWA 10mg/m ³ inhalable particulate, 3mg/m ³ respirable particulate |
| Yellow Iron Oxide | 051274001 | 6 | OSHA (final rule) (fume): TWA 10mg/m ³ . ACGIH TLV (fume), as iron: TWA 5g/m ³ . |
| Antimony Chromium Manganese Titanium Brown Rutile | 069991680 | 6 | Observe Final rules. Chromium Oxide: (OSHA PEL and ACGIH TLV, as chrome: TWA 0.5m ³), Antimony Oxide (OSHA PEL and ACGIH TLV, as antimony: 0.5mg/m ³) Manganese Oxide: (OSHA PEL), as manganese: Ceiling 5mg/m ³ ; ACGIH TLV: TWA 5g/m ³ |
| Aminoethyl Aminopropyl Trimethoxysilane | 001760243 | 2 | See methyl alcohol comments |
| Di(ethylmethyl ketoxime) methoxymeethyl silane | 083817725 | 0.9 | See enthyl methyl ketoxime and methyl alcohol components |
| Aluminum | 007429905 | 2 | OSHA PEL (final rule): TWA 15mg/m ³ total dust, 5mg/m ³ respirable fraction. A ACGIH TLV (metal dust): TWA 10mg/m ³ |

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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

4. First-aid measures

- Take off immediately all contaminated clothing
- After skin contact: Clear with water and skin cleanser immediately
- After eye contact: Rinse with plenty of water immediately, seek medical advice if necessary
- After ingestion: Seek medical advice immediately

5. Fire-fighting measures

- Suitable extinguishing media: -Water spray, foam, CO2, dry powder
- Unsuitable extinguishing media: -

6. Accidental release measures

- Methods for cleaning up: Take up mechanically

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

- Ingredients with limiting values to be controlled
TLV (TRGS 900/D): Not indicated
- Industrial hygiene: Remove immediately all contaminated clothing. Do not inhale vapours/aerosols
- Hand protection: Suitable protective gloves
- Eye protection: Protective goggles

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9. Physical and chemical properties

- Form: Pasty
- Color: Copper Red
- Odour: Characteristic
- Melting temperature: Not applicable
- Boiling temperature: Not applicable
- Flash point: >320°C
- Ignition temperature: Not determined
- Vapour pressure (°C): Not determined
- Density (20°C): 1, 04g/cm³
- Solubility in water (20°C): Practically insoluble
- pH value (g/l water) (°C): Not determined

10. Stability and reactivity

- Stability: Decomposition at temperature above 250°C
- Hazardous decomposition products: None
- Hazardous reaction: No dangerous reactions known

11. Toxicological information

- Skin: May cause moderate irritation. Repeated skin contact may cause allergic skin reaction
- Eyes: Possibility irritating

Further information:

The data are derived from the labeling according to the EC Dangerous Preparation Directive

12. Ecological information

No data available (preparation)

13. Disposal considerations

- Product: With respect to local regulations, e.g. dispose of to suitable waste incineration plant

14. Transport information

No dangerous goods under the transport regulations

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15. Regulatory information

- Labeling (EC): According to the Dangerous Preparation Directive (88/379/EEC)
 Contains: Butan-Z-one O, O', O" – (methylylidne) trioxime
 Hazard symbol: Xi = Irritant
 R-phases: 43 May cause sensitization by skin contact
 S-phases: Z Keep out of reach of children
 24/25 Avoid eye contact with skin and eye
 37 Wear suitable gloves
 46 If swallowed, seek medical advice immediately and
 show this container or label

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.

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