

Material Safety Data Sheet Issue Date: 01-01-03		Product Code: VT-114 PlasticBonder
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1. Identification of the substance/preparation and of the company/undertaking

Product name: VT-114 PlasticBonder (Bonder)

Company: Vital Technical Sdn. Bhd. No.7, Jalan Helang Hindik (Jalan 117) Kepong Baru Industrial Estate 52100 Kuala Lumpur, Malaysia	Tel: +603-62734088 Fax: +603-62736685 Email: sales@vitaltechnical.com Website: www.vitaltechnical.com
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2. Composition/information on ingredients

Chemical Name	CAS No.	Proportion(%)
Ethyl - 2 - Cynoacrylate	7085-85-0	86 – 99
Polymethyl methacrylate	9011-12-7	1 -14

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

3. Hazards identification

Cyanoacrylate! Danger bonds skin and eyelids within seconds. Keep out of reach of children.

4. First-aid measures

- General information: No special measures required
- After inhalation: Supply fresh air
- After skin contact: Instantly wash with soap and rinse thoroughly
- After eye contact: Rinse opened eye for several minutes under running water, then consult doctor.
- After swallowing: Call a doctor immediately

**Information for doctor:*

- The following symptoms may occur: Breathing difficulty
- Treatment: In case of irritation to lungs, initial treatment with Daxametason metered aerosol

5. Fire-fighting measures

- Suitable extinguishing media: CO2, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam

Special hazards caused by the material, its products of combustion or flue gases:

- Formation of toxic gases is possible during heating or in case of fire.
- Can be released in case of fire: Nitrogen oxides (Nox), Carbon monoxide (CO)
- Protective equipment: Do not inhale explosion gases or combustion gases

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6. Accidental release measure

- Person-related safety precautions: Ensure adequate
- Measure for environmental precaution: Prevent material from reaching sewage system, holes and cellars
- Measure for cleaning/collecting: Collect mechanically
- Absorb with liquid/binding material (sand, diatomite, acid binders, universal binders, sawdust)
- Additional information: No dangerous materials are released

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

- Occupational Exposure Limit: OES for ethyl cyanoacrylate is 0.33ppm = 1.5mg/m³ (STEL 15min TWA, as stated in EH40/2000)
- Wear polythene gloves
- Wear suitable overalls or apron if usage is large and change if contaminated
- Wear suitable eye protection such as BS EN 166
- Use in well-ventilated areas: Use mechanical ventilation if necessary to maintain vapour level below TLV. If excessive inhalation in a poorly ventilated area is likely then use a respirator with filter type P
- After skin contact with skin wash off immediately

9. Physical and chemical properties

- Form: Fluid
- Color: Colorless
- Odor: Characteristic
- Boiling point: >180°C
- Flash point: >85°C
- Freezing point: -16°C
- Ignition temperature: Not determined
- Specific gravity: 1.05
- Solubility in water (20°C): Non-solubility

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10. Stability and reactivity

Thermal decomposition/conditions to be avoided:

- No decomposition if used according to specifications

Dangerous reactions

- Exothermic polymerization
- Violent reactions with strong alkalis and oxidizing agents
- Reacts violently with water

Dangerous products of composition:

- No dangerous decomposition products known

11. Toxicological information

Oral: LD50 oral rat >5000mg/kg. Considered to have relatively low toxicity. Product is almost impossible to swallow, due to polymerization in mouth

Skin: LD50 skin rabbit >2000mg/kg

Inhalation: See section 8 for OES

Acute effects: Eye watering, irritation of nasal cavities and respiratory tract and irritation and redness at the site of skin contact. Repeated skin contact may possible caused dermatitis in sensitive individuals. Prolonged and repeated over-exposure to high concentration of vapours may lead to sensitizing effects in sensitive individuals.

12. Ecological information

Ecotoxicity: No specific data available, but expected to be very low

Persistence: No specific data available

Bio-accumulative potential: No specific data available

Mobility: No specific data available, but expected to be very low

13. Disposal considerations

- Polymerise adhesive by adding slowly to water (~ 10:1, adhesive: water)
- Add water to contaminated packaging and then dispose off
- Do not discharge into drain or watercourses
- Dispose of in accordance with local legislation

14. Transport information

No classification as hazardous for transport regulations

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15. Regulatory information

- Cyanoacrylate-Danger! Bonds skin and eyelids within seconds. Should be kept out of children's reach.
- R36/37/38: Irritating to eyes, respiratory system and skin
- S24/25: Avoid contact with skin and eyes
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S37: Wear suitable gloves

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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