



Product Name: GC-501

Prepared date:9-Mar-2007

Revised Date: 16-March-2018

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier: GC-501 (Ethylene-Methyl methacrylate Copolymer based Hot Melt Adhesive)

Recommended use and restriction on use

Perfect binder PB-501, PB-502 and PB-503

Supplier Identification

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2. HAZARDS IDENTIFICATION

Regulation (EC) No 1272/2008

Classification: Not classified as dangerous.

Hazard Communication Standard (USA)

Classification: Not classified as dangerous.

LABEL ELEMENTS

Precautionary pictograms:	---
Signal word:	---
Hazard Statement:	---
Precautionary Statements:	---

Other Hazards

HAZARDS : Molten adhesive will produce burns to skin areas.

TOXICITY : Heating may produce irritating vapors which may cause irritation of eyes, nose, or throat.



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3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance/Mixture: Mixture

Component		CAS No. EINECS No.	REACH Registration No.	CLP
Ethylene-Methyl methacrylate Copolymer [Generic Name]	80-90 %	+++	+++	Not classified
Paraffin wax	10-20 %	8002-74-2 232-315-6	+++	Not classified
Titanium dioxide	<10 %	13463-67-7 236-675-5	+++	Not classified

4. FIRST-AID MEASURES

4.1 Description of first aid measures

Ingestion: Rinse mouth. If symptoms occur, contact a physician immediately.

Inhalation: In case of adverse exposure to vapors produced by excessive heating, immediately remove to fresh air. (Note : If inhales a mass of heated vapours at a time.)

Eye Contact: If eye contacts with molten material, cool as quickly as possible with cold water and see a physician for treatment.

Skin Contact: If burn involvement due to skin contact with molten material, cool as quickly as possible with water and contact a physician for treatment of burn.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation Effect: Vapours from heated material may cause irritation to eyes, nose and throat.

Contact Effect : Skin and eyes may burn from heated material.

Chronic Effects: No effects known.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.



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5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media: Water, dry chemicals, carbon dioxide, dry sand and foam

Extinguishing Media to Avoid: Water (In case of unusual fire)

5.2 Special hazards arising from the substance or mixture

In case of unusual fire, hot water or molten material may splatter and spread when water is used as a extinguishing media. Carbon oxides and other toxic gases may form by combustion and thermal decomposition.

5.3 Advice for firefighters

Use proper protective goggles and clothing, and self-contained respiratory equipment.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, protective equipment and emergency procedures

When handling heated adhesive, use proper protective goggles and clothing, and self-contained respiratory equipment.

6.2 Environmental Precautions

Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up

In case molten adhesive is released or spilled, allow to cool and remove. If adhesive remove in molten state is needed, wear proper protective goggles, gloves and long-sleeved clothing to avoid burns.

6.4 Reference to other sections

For disposal see section 13



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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Technical Measures: Use proper melter and applicator. Use in range of running temperature suggested in Product Technical Instructions. Do not put an ignition source around here.

Precautions: Do not treat roughly leading to break the package.

Safe Handling Advice: When handling melter and applicator, wear gloves, long-sleeved clothing and goggles to prevent burns.

Advice on general occupational hygiene: no data available

7.2 Conditions for safe storage, including any incompatibilities

Technical Measures: Store in a indoor wearhouse.

Storage Conditions: Store indoor to avoid a high temperature. Keep away from dust or water when not in use.

Incompatible Products: Oxidising agents.

7.3 Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters (As total dust)

EU-OEL: none

DFG-MAK(GER): none

OSHA-PEL(USA): none

ACGIH-TLV(USA): none

8.2 Exposure Control

Engineering Measures

Ventilation: Recommend to provide adequate local exhaust ventilation to avoid excessive rise of airborne concentration of vapors.

Personal Protective Equipment

Respiratory protection: Protection mask.

Hand protection: Gloves (made from cotton) or heat-resistant gloves.

Eye/Face protection: Normal eyeglasses, normal eyeglasses with side shields, or safety goggles.

Skin protection: Long-sleeved work clothes (made from cotton).



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9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance

Physical State: Solid

Color: White

Form: Pellet

Odour:

Resin odor

Odour threshold:

no data available

PH

Not applicable

Boiling Point (°C):

Not applicable

Melting Point (°C):

80-100 °C/ 176- 212 °F (Softening Point)

Flash Point (°C):

>220 °C/ 428 °F

Autoignition Temperature (°C):

No data available

Explosion Properties:

No data available

Vapor Pressure:

Not applicable

Solubility(ies):

Insoluble in water.

Partition Coefficient, n-Octanol/Water:

Not applicable

Evaporation rate

Not applicable

Flammability (solid, gas):

No data available

Upper/lower flammability or explosive limits:

Not applicable

Vapour density:

Not applicable

Relative density:

0.9-1

Decomposition temperature:

Not applicable

Viscosity:

Not applicable

Oxidising properties:

No data available

9.2 Other (safety) information

Not available



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10. STABILITY AND REACTIVITY

10.1 Reactivity

At greater than 200°C (392 °F), molten adhesive gradually degrades and its viscosity reduces.

10.2 Chemical Stability

Stable under ordinary use.

10.3 Hazardous Reactions

None.

10.4 Conditions to avoid

Heat more than the limit temperature indicated in the product manual.

10.5 Materials to Avoid

Pyrophoric substances.

10.6 Hazardous Decomposition Products

CO, CO₂ and smoke.

10.7 Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity:

Ingestion(oral), LD50(mg/kg): No data available

Dermal, LD50(mg/kg): No data available

Inhalation, LC50(mg/l): No data available

Irritation/Crossivity

Eye irritation: No data available

Skin irritation: No data available

Skin sensitizer: No data available

Repeated Dose Toxicity: No data available

Carcinogenicity

Titanium dioxide is possibly carcinogenic to humans (IARC classification is Group 2B; Monograph Vol.93). This product contains titanium dioxide more than 0.1%. However due to the physical nature of this product exposure to respirable dust is not expected under normal conditions of use and during foreseeable emergencies.

Mutagenicity: No data available

Toxicity for Reproduction: No data available



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12. ECOTOXICOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

Further information: Not a dangerous good under IATA or IMDG.

IATA: Not regulated as dangerous goods under IATA DGR Regulation 2018 59th edition.

Hazchem code (Austl.): None



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15. REGULATORY INFORMATION

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

US Information

CERCLA(Comprehensive Environmental Response Compensation and Liability Act) :

None.

SARA Title III (Superfund Amendments and Reauthorization Act)

302 Extreme Hazardous Substance : None.

311/312 Hazard Categories : None.

313 Reportable Ingredients : None.

EU information

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this mixture

16. OTHER INFORMATION

Abbreviations:

ACGIH-TWA: Threshold Limit Value of American Conference of Government Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DFG-MAK: Maximale Arbeitsplatz-Konzentration by Deutsche Forschungsgemeinschaft

DGR: Dangerous Goods Regulations

EINECS: European Inventory of Existing Commercial Chemical Substances

H-Code: Hazard Code

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

NTP: National Toxicology Program

OEL: Occupational exposure limit

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act

vPvB: very Persistent and very Bioaccumulative

Restrictions:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.
