1. Identification of Substance

* Product Name : COPAN, WH-100
* Product Chemical Name : Polymethyl methacrylate
* Product Family Name : Thermoplastic Acrylic Sheet
* Manufacturer Address : #55-1 Namsan-Ri, Paengseong-Eup, Pyeongtaek-City, Kyungki-Do, KOREA
* Maker : Shinhantek. co., ltd/ R+D/ Wansun Oh

2. Composition

Chemical Name	Unothers Name	CAS No	Contents(%)
Polymethyl methacrylate	Acrylic Polymers	9011 - 14 - 7	99 %
Methyl methacrylate		80-62-6	1%

3. Hazards Identification

* Emergency State : No Data
* Health Hazard Data

Eye : No toxic symptoms reported. Polymer particle may act as foreign body.

Skin : No toxic symptoms reported. Molten material has the pontential to cause thermal burn.

Inhalation : No toxic symptoms reported. Pellets are not considered an inhalation hazard.

Ingestion : If signigicant quantity has been swallowde, give a glass of water and induce vomiting Seek medical attention.

4. Emergency and First Aid Measures

* Emergency and First Aid Measures

Eye(Contact) : Flush with plenty of water. Seek medical attention if symptoms persist.

Skin(Contact) : If molten polymer contact skin, cool rapidly with cold water.

Inhalation : Remove to fresh air.

Ingestion : If signigicant quantity has been swallowed, give a glass of water and induce vomiting Seek medical attention.

5. Fire and Explosion Hazard Data

* Flash Point(method used) : >280 ℃ (536°F)
* Flammable Limits : No Data
* Extinguishing Media : Dry Chemical , CO_2 , FORM or water spray

* Special Fire Fighting Procedure

Water and/or dry chemical should not be used on machinery. Self-contained breathing apparatus and personal protective

* Unusual Fire and Explosion Hazards

Fire procedure irritaing gases and dense smoke

1) Addition of compounds containing phosphorus and halogen

2) Combination with polyvinyl chloride to form an alloy

6. Spill or Leak Measures

* In the case of spillage, please immediately rem ove from the floor or aisle to avoid a slipping hazard
* Waste disposal method

Transfer to an approved disposal area in accordance with regulation on industrial waste disposal

7. Handling and Storage

* Handing

Inform ation for safe handling

- Sufficient ventilation is necessary
- Lifting of heavy bags can damage to your spine if not done correctly

* Storage
  - Requirements to be mat by storerooms and containers
  - Refrain from using fire at a handling or storing place
  - Keep away from sunlight, water, and moisture and store at an ambient temperature

8. Exposure controls and personal protection

* Protective Gloves

Recommended during melt processing

* Eye Protection

Safety glasses recommended

9. Physical and chemical properties

* Appearance : Transparent or colored plannar sheet
* Odor : None
* PH : Not applicable
* Solubility in water : Insoluble
* Specific gravity : 1.19
* Melting Point : Over 100℃
* Flash Point : No data
* Viscosity : Pertinent data nil
* Transmittance : Over 90%
* Haze : Under 1.0%

10. Stability and reactivity

* Stability : Stable under normal and recommended storage and handling conditions.
* Incompatibility(Material to avoid) : Pertinent data nil

* Hazard Decomposition Products : Vapor or gases give no ff under recommended processing conditions may contain trace levels of MMA monomer and other substances which are not clearly identified. At elevated temperature(above 300 degree Celsius), decomposition may occur resulting in the release of irritating gasses. Carbon dioxide,carbon monoxide, MMA monomer will be generated in combustion.

11. Toxicological information

* Precautious to be taken in handling and storing. Store in cool drt place
* LD50 : No data
* LC50 : No data
* Eye : data
* Skin : Pertinent data nil

12. Ecological information

* Not expended to present any significant ecological problems.

13. Disposal consideration

* Burn in ana dequate incinerator or bury in land fill in accordance with all applicable regulations. Any disposal practice must be in compliance with local, state, and federal laws and regulations.

14. Transport information

* Land transport : No data

Not dangerous according to the above specifications

15. Regulatory information

* Toxic substances control act(TSCA) : Components of the meterial are listed on the TSCA inventory.
* Cercla : The material contains a substance, methyl methacrylate, in quantities subject to reporting.
* Sara section 302 extremely hazardous substances : Neither the material nor methyl methacrylate, component of the material, meet the category of extremely hazardous substance.
* Sara section 311/312 hazardous catedory : The material is categorized as a delayed health hazard.
* Sara section 313 toxic chemicals : The material contains a toxic chemical substance, methyl methacrylate, subject to the reporting requirement of this Section 313.