MATERIAL SAFETY DATA SHEET
(GHS compliant version)
Issued date: January 1, 2009

1. MANUFACTURER’S INFORMATION:
1.1 Commercial name: Continuous filaments glass fibers
1.2 Producer: CHONGQING POLYCOMP INTERNATIONAL CORP.
               Dadukou Dist Chongqing P. R. of CHINA
1.3 Usage: Industrial
1.4 Emergency Telephone: 0086-23-69090557

2. IDENTIFICATION OF THE SUBSTANCE
2.1 Chemical name: Almina borosilicate glass,
single product containing a binder and coupling agent
2.2 Hazards: Non combustible solid
2.3 Harmful: None
   Glass is not a chemical substance which comes under the official gazette
   notice reference number of the Chemical Substance Control Law,
   ordinance no. of the PRTR and the Industrial Safety and Health Law.
2.4 Environmental effect: None
2.5 Others: CAS No65997-17-3

3. DANGERS IDENTIFICATION
3.1 Security: Non hazardous material, according to EC legislation Reinforced fiber glass
3.2 Men’s hazards: Long and repetitive exposure to dust with no mask may affect breath

4. FIRST AID
4.1 Inhalation: Rinse out your mouth with water and evacuate to clean place.
4.2 Ingestion: First induce vomiting to get rid of it, then rinse your mouth with water.
               If the pain does not go away, consult your doctor.
4.3 Eye: Wash with running water clean for at least 15 minutes.
4.4 Skin: Wash, using warm water and mild soap.

5. FIRE FIGHTING PROCEDURES
5.1 Special fire and explosion data: Non combustible
5.2 Extinguishing media: Water, however, select the proper extinguisher depending on the situation
5.3 Special fire fighting procedures: None
5.4 Usual fire & explosion hazards: None
5.5 Others: The binder or coupling agent used in processing fibers is generally combustible.
   Harmful by-product is almost never appear during the burning except CO,CO2,H2O
   which appear normally

6. ACCIDENTAL RELEASE MEASURE
6.1 Individual protections: Avoid to breath dusts, wear a dust mask
6.2 Cleaning method: Dampen with water and sweep up
7. HANDLING AND STORAGE

7.1 Handling precautions: Wear the protective musk, gloves, glasses as necessary.
   When using chemicals, solvents or other volatile agents in
   processing of Easy gun into finished products, the respiratory protection
   and ventilation is recommended.

7.2 Storage precautions: Store in a dry place

8. SPECIAL PROTECTION INFORMATION

8.1 Average value of exposure: 10mg/m$^3$ of total dust, or 5mg/ m$^3$ of respirable dust

8.2 Protection
   Respiratory protection : Wear a dust mask in case of high dust levels
   Body protection : Use long-sleeved shirts, buttoned to fit at the neck and wrists, and
   Long pants
   Skin protection : Wear protective gloves
   Eye protection : Use safety glasses

9. CHEMICAL AND PHYSICAL DATA

9.1 Appearance : White fiber
9.2 Odour : No odour
9.3 Melting point : about 845°C (softening point)
9.4 Solubility in water : insoluble in water
9.5 PH : N/A
9.6 Vapour density(mm) : N/A
9.7 Specific gravity(H$_2$O=1): 2.54g/cm$^3$
9.8 Flash point(℃): N/A (may emit smoke briefly between 120℃-180℃ but
   is unlikely to flash)
9.9 Flammable limits: N/A
9.10 Other

10. STABILITY AND REACTIVITY DATA: Stable

10.1 Conditions to avoid : N/A
10.2 Materials to avoid : N/A
10.3 Hazardous decomposition: Coupling agent or binders may decompose in a fire.
   Products Primary combustion products are carbon
   Monoxide, carbon dioxide and water

11. HEALTH HAZARD DATA

11.1 Acute toxicity : N/A
11.2 Skin corrosion/irritation : N/A
11.3 Serious eye damage/irritation : N/A
11.4 Respiratory or skin sensitization : N/A
11.5 Germ cell mutagenicity : N/A
11.6 Carcinogenicity : Out of category

   The International Agency for Research of Cancer (IARC) designated
   continuous filament fiber glass as a group 3
11.7 Genital toxicity : N/A
11.8 Specific target organ toxicity - single exposure : N/A
11.9 Specific target organ toxicity - repeated exposure : N/A
11.10 Attractant respiratory toxicity : N/A

12. ENVIRONMENTAL INFORMATION
12.1 Persistence/Biodegradability : N/A
12.2 Bioaccumulation potential : N/A
12.3 Mobility in soil : N/A

13 HEALTH EFFECTS INFORMATION
   Mechanical degradation or clearing fiber glass
   (If there is an abnormality, consult your doctor)

14. WASTE DISPOSAL INFORMATION
14.1 Product: Disposal as for general industrial waste
   Follow any other related regulation

15. TRANSPORTION

   ROAD    SEA    AIR
   RID/ADR/RTMDR IMDG OACI/IATA

   Class…………
   Group…………
   Label ………… NO SPECIAL REGULATIONS
   Code…………
   Material(n°ONU)…. 

16. LEGAL INFORMATION
   EEC Labels: Non dangerous goods and no labeling necessary according to 67/548/EEC

1) ISSUANCE RESPONSIBILITY OF MSDS
   *"Man-made mineral fiber” is listed on the order for Industrial Safety and Health Act Annex
   No.9 314 as hazardous or harmful material must be notified which is set up on Industrial Safety
   and Health Act first clause of the article 57-2, however it is designated that “ Man-made mineral
   fiber in annex No.9 314 does not contain continuous filament fiber glass” in the following notice.
   Therefore, there is no issuance responsibility of MSDS.(Kihatsu(Notice)No.162 ‘A low revised
   Industrial Safety and Health Act and Working Environment Measurement Act’ by director general
   of Labor standards Bureau, Misistry of laber, Mar.24,2000)

2) INDUSTRIAL SAFETY AND HEALTH ACT
   *When you cut a mineral(glass fiber) of No.6 classification in Attached table 1 in the ordinance
   of Prevention of Hazards due to dust, the regulation set forth in the ordinance of the Occupational
   Safety and Hygiene Law is applied.
Fiber glass contains 0% free silicic acid, therefore, the dust control concentration is 3.0mg/m3 according to the following formula.

\[ E = \frac{3.0}{0.59Q + 1} \]  
(E: control concentration, Q: free silicic acid content in dust)

The control concentration used for measured result in working environment has been reviewed based on the latest medical knowledge or measuring technologies and revised to the above formula from \[ E = \frac{2.9}{0.22Q + 1} \]  
(Kihatsu(Notice)No.0215002 ‘Partly revision of Ordinance on the Prevention of the Hazard due to Specified Chemical Substances’ by director general of Labor standards Bureau, Ministry of Health and Labor, Feb.15,2005.)

*When you produce or handle the glass fiber and the product containing them, the point to concern regarding the production or handling (Guidance for Occupational Hygiene in the workplace Concerning Glass Fiber and Rock Wool) is applied to prevent the health disorder to workers due to the exposure.

17. OTHER INFORMATION

Note 1) It is stable E-glass product mainly composed from 2. IDENTIFICATION OF THE SUBSTANCE and does not contain free silicic acid.

Note 2) “Boron and its compounds” is listed on Order for Pollutant Release and Transfer Register (PRTR) annex 1 as first-class designated chemical substance.
   Continuous filament fiber glass is “glass product” contains more than 1% as “boron” however it is not relevant to PRTR due to the following reasons.
   ① “Glass” is not chemical name, therefore it is not a object substance to PRTR.
   ② It is not notifiable to PRTR in the range of normal use.

Note that the amount of emission and displacement is to be notifiable in case in the process with melting, evaporation and dissolution.

1) References

* “Recommendation of acceptable concentration”
  By Japan Society for Occupational Health Magazine, volume 46 335,2004

  By International Agency for Research on Cancer (IARC)

2.) Registry information for existing chemical substances in major counties.

* European Inventory of Existing Commercial Chemical Substances (EINECS)
  EINECS No. 266-046-0
  CAS No. 65997-17-3
  Registry name : Glass, oxide, chemicals

* Toxic Substances Control Act (TSCA)
  CAS No. 65997-17-3
  Registry name : Glass, oxide, chemicals
* Inventory of the Existing Chemical Substances in China
  CAS No.65997-17-3
  Registry name: Glass, oxide, chemicals

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The user of this material should inform by transmitting this data sheet, persons that might get in touch with the material (use, storage, cleaning of the manufacturing tools)

Users should especially pay attention to the risks that could occur if the product was to be used for other applications than the ones for which it has been conceived.

This data sheet should not help the user from knowing and applying the legislation of his industrial field. It is only under his own responsibility to take all caution linked to the use of this material, which he knows.