

Material Safety Data Sheet

1 Identification of the substance/preparation and of the company/undertaking

.Product details

.Trade name: FCJJ-16

.Application of the substance: Edu products

.Manufacturer/Supplier: Jiangsu Horizon New Energy Technologies, Ltd
 Room 302-309,3rd Floor,Building A,New Enviromentally materials Industrial Park,Huada Road,Jingang Town,
 Zhangjiagang City, JIANGSU ,CHINA

Tel: +86- 21-52709082

Fax: +86- 21-52705064

.Further information obtainable from: Jiangsu Horizon New Energy Technologies, Ltd

.Information in case of emergency: Jiangsu Horizon New Energy Technologies, Ltd
 Room 302-309,3rd Floor,Building A,New Enviromentally materials Industrial Park,Huada Road,Jingang Town,
 Zhangjiagang City, JIANGSU ,CHINA

Tel: +86- 136 1193 4372

.Contact: Jason Jin

2 Composition/information on ingredients

.Chemical characterization

.Description: Mixture of substances listed below with additions.

| .Components Number: | CAS Number | Approximate(%)by Wt.Or Vol. |
|----------------------------|-------------------|------------------------------------|
| PC | 25037-45-0 | 45% |
| ABS Resins | 9003-56-9 | 47% |
| Polyvinyl chloride | 9002-86-2 | 3.2% |
| Stainles Steel | 65997-19-5 | 0.8% |
| Silicon dioxide | 112926-00-8 | 1.2% |
| | | |

3 Hazards identification

.These products should not be considered as hazardous materials as our own interpretation of the U.S. Occupational Safety and Health Act and Regulation, including the hazard Communication Standard 29 CFR 1910.1200.

Hazardous Material Identification System

Rating

Health Hazard:

0 Minimal

Flammability hazard

1 Slight

Reactivity hazard

0 Minimal

.Eye: If this material is heated, thermal burns may result from eye contact. Not expected to cause prolonged or significant eye irritation.

.Skin: Thermal burns to the skin: may include pain or feeling of heat, discoloration, swelling, and blistering. If this material is

heated, thermal burns may result from skin contact. Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response.

.Ingestion: Not available in normal used.

4 First aid measures

.Eye: Flush eyes with running water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get immediate medical attention..

.Skin: To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. Get medical attention if any symptoms develop. If the hot material gets on skin, quickly cool in water. See a doctor for extensive burns. Do not try to peel the solidified material from the skin or use solvents or thinners to dissolve it.

.Ingestion: If swallowed, do not induce vomiting. Give the person a glass of water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person.

.Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

5 Fire-fighting measures

.Extinguishing Media: CO₂; foam; dry chemical

.Special Fire Fighting Procedures: If batteries are on charge, shut off power. Use positive pressure, self-contained breathing apparatus. Water applied to electrolyte generates heat and causes it to spatter. Wear acid-resistant clothing.

.Unusual Fire and Explosion Hazards: Highly flammable hydrogen gas is generated during charging and operation of batteries. To avoid risk of fire or explosion, keep sparks or other sources of ignition away from batteries. Do not allow metallic materials to simultaneously contact negative and positive terminals of cells and batteries. Follow manufacturer's instructions for installation and service.

6 Accidental release measures

.Person-related safety precautions: Wear protective equipment, Keep unprotected persons away.

.Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

.Measures for cleaning/collection:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

.Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Vacuum or sweep up material and place into a suitable, dry disposal container.

7 Handling and storage

.Handling:

.Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

.Information about fire- and explosion protection:

Keep ignition sources away-Do not smoke.

Protect against electrostatic charges.

.Storage: Store away from oxidizing materials, in a cool, dry place with adequate ventilation. Bond and ground transfer equipment. **DO NOT USE OR STORE near heat, sparks or open flames. USE AND STORE ONLY IN WELL VENTILATED AREA.** Keep container closed when not in use.

.Requirements to be met by storerooms and receptacles: No Required.

.Information about storage in one common storage facility: Not required.

.Further information about storage condition: None.

8 Exposure controls/personal protection

.Engineering Controls:

Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant.

.Work Practices:

Handle batteries cautiously to avoid spills. Make certain vent caps are on securely. Avoid contact with internal components. Wear protective clothing when filling or handling batteries.

.Respiratory Protection:

None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed the PEL, use NIOSH or MSHA-approved respiratory protection.

.Protective Gloves:



Protective Gloves

Rubber or plastic acid-resistant gloves with elbow-length gauntlet.

.Eye Protection:



Tightly sealed goggles

Chemical goggles or face shield.

.Other Protection:

Under severe exposure emergency conditions, wear acid-resistant clothing and boots.

.Emergency Flushing: In areas where sulfuric acid is handled in concentrations greater than 1%, emergency eyewash stations and showers should be provided, with unlimited water supply.

9 Physical and chemical properties

| | |
|--|----------------------------------|
| .General Information | |
| Form: | Manufactured article |
| Color: | Not available |
| Odor: | No apparent odor |
| .Change in condition | |
| Melting point/Melting range: | Not available |
| Boiling point/Boiling range: | Not available |
| .Flash point: | Not applicable |
| .Self-igniting: | Product is not self-igniting |
| .Danger of explosion: | Not available |
| .Density: | Not available |
| .Relative density: | Not available |
| .Vapor density: | Not available |
| .Evaporation rate | Not available |
| .Solubility in/Miscibility with | |
| Water: | Not miscible or difficult to mix |
| .PH-Value: | Not available |
| .Viscosity: | |
| Dynamic: | Not available |

10 Stability and reactivity

- .Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
- .Conditions to Avoid:** Not Applicable Incompatibility With Other Materials: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
- .Hazardous Decomposition Products:** It may be low molecular weight hydrocarbons, during thermal processing.
- .Hazardous Polymerization:** Hazardous polymerization will not occur.

11 Toxicological information

- .Acute Oral Toxicity:** Not available
- .Acute Dermal Toxicity:** LD50 / not known
- .Acute Inhalation Toxicity:** LD50 / not known
- .Eye Irritation:** This material is not expected to be irritating to the eyes.
- .Skin Irritation:** This material is not expected to be irritating to the skin.
- .Sensitization:** Dermal - not a sensitizer / human
- .Additional Toxicology information:**
 During thermal processing polyolefin can release vapors and gases which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. Generally these irritant effects are all transitory. However, prolonged exposure to irritating off-gases can lead to pulmonary edema.
 The toxicological properties of this product have not been tested or have not been tested completely and its handling or use

may be hazardous. **EXERCISE DUE CARE.**

12 Ecological information

.ECOTOXICITY: This material is not expected to be harmful to aquatic organisms. Fish or birds may eat pellets which may obstruct their digestive tracts.

.Environmental fate: This material is not expected to be readily biodegradable.

13 Disposal considerations

.Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

.Recommendation Disposal must be made according to official regulations.

14 Transport information

The description shown may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements. Shipping Descriptions per regulatory authority.

.US DOT: Not regulation as a hazardous material or dangerous goods for transportation.

.ICAO / IATA: Not regulation as a hazardous material or dangerous goods for transportation.

.IMO / IMDG: Not regulation as a hazardous material or dangerous goods for transportation.

.RID / ADR: Not regulation as a hazardous material or dangerous goods for transportation.

15 Regulatory information

.SARA 311/312 CATEGORIES:

1. Immediate (Acute) Health Effects: NO
2. Delayed (Chronic) Health Effects: NO
3. Fire Hazard: NO
4. Sudden Release of Pressure Hazard: NO
5. Reactivity Hazard: NO

.Regulatory lists searched:

| | | |
|-----------------------------|-------------------|-------------------------------|
| 01 = CA Prop 65 | 17 = FDA 178 | 33 = RCRA Waste Appendix VIII |
| 02 = LA RTK | 18 = FDA 179 | 34 = RCRA Waste D-List |
| 03 = MA RTK | 19 = FDA 180 | 35 = RCRA Waste P-List |
| 04 = MN Hazardous Substance | 20 = FDA 181 | 36 = RCRA Waste U-List |
| 05 = NJ RTK | 21 = FDA 182 | 37 = SARA Section 302 |
| 06 = PA RTK | 22 = FDA 184 | 38 = SARA Section 313 |
| 07 = CAA Section 112 HAPs | 23 = FDA 186 | 39 = TSCA 12 (b) |
| 08 = CWA Section 307 | 24 = FDA 189 | 40 = TSCA Section 4 |
| 09 = CWA Section 311 | 25 = IARC Group 1 | 41 = TSCA Section 5(a) |

| | | |
|---------------------------|----------------------------|-----------------------------|
| 10 = DOT Marine Pollutant | 26 = IARC Group 2A | 42 = TSCA Section 8(a) CAIR |
| 11 = FDA 172 | 27 = IARC Group 2B | 43 = TSCA Section 8(a) PAIR |
| 12 = FDA 173 | 28 = IARC Group 3 | 44 = TSCA Section 8(d) |
| 13 = FDA 174 | 29 = IARC Group 4 | 45 = WHIMS - IDL |
| 14 = FDA 175 | 30 = NTP Carcinogen | 46 = Germany D TAL |
| 15 = FDA 176 | 31 = OSHA Carcinogen | 47 = Germany WKG |
| 16 = FDA 177 | 32 = OSHA Highly Hazardous | 48 = DEA List I |

16 Other information

The contents and format of this MSDS are in accordance with EEC Commission Directive 2001/58/EC, 1999/45/EC, 1967/548/EEC.

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handing, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may be applicable.

.Emergency Telephone Number +86-136 1193 4372

.Department issuing MSDS: Jiangsu Horizon New Energy Technologies, Ltd

.Contact: Jason Jin

*****The End*****