



## MATERIAL SAFETY DATA SHEET

Version: 2023.7.11

Product Brand: HEXETATE GRANULE

Product Grade: rPMMA-T80A

Product Instruction: rPMMA-T80A rPMMA-T80A is a 100% PCR transparent grade with nature color,  
BPA Free compliant with extremely Eco-friendly Environment.

### 1. IDENTIFICATION OF THE SUBSTANCE & ENTERPRISE IDENTIFICATION

Product name: HTG002-RC

Product description: Polymethyl Methacrylate  
(CAS: 9011-14-7)

Recommended use: May be used to produce molded or extruded articles or as a component of other industrial products.

Name of company: WENZHOU HENGSI OPTICS TECHNOLOGY CO., LTD

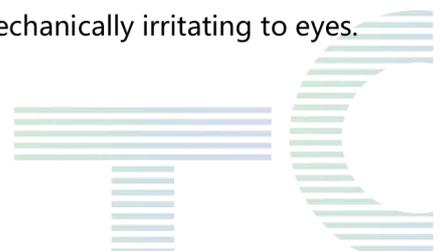
Company address: ROOM402, CITIC PLAZA, NO.233, TIANHEBEI ROAD, GUANGZHOU CHINA (P.C. 510610)

Phone: +86.20.87589873

### 2. HAZARDS IDENTIFICATION

Skin contact: Pellets not likely to cause skin irritation

Eye contact: Resin particles, like other inert materials, are mechanically irritating to eyes.



Inhalation: Pellet ingestion unlikely due to physical form

Ingestion: Pellet ingestion unlikely due to physical form

Other data: Cool skin rapidly with cold water after contact with molten material.

Heating can release Hazardous fumes can also occur in  
hazardous gases. post-processing operations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Not a hazardous substance or preparation according to GHS

Chemical Name	CAS No	Content(%)
Polymethyl Methacrylate	9011-14-7	>99

### 4. FIRST AID MEASURES

Inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.

Skin contact: Cool skin rapidly with cold water after contact with hot polymer. Wash off immediately with soap and plenty of water. Consult a physician.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist.

Ingestion: No hazards which require special first aid measures.





Precautions: Cool molten product on skin with plenty of water. Do not remove solidified product. Do not peel polymer from the skin.

## 5. FIRE-FIGHTING MEASURES

Auto ignition temperature: 630 °C (1166 °F), estimated  
Explosive properties: upper: Not determined  
lower: Not determined  
Suitable extinguishing media: Water spray mist or foam.  
Extinguishing media which must not be used for safety reasons: carbon dioxide (CO<sub>2</sub>), Dry chemical  
Hazardous decomposition products: Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbons fragments  
Special protective equipment for firefighters: In the event of fire, wear self contained breathing apparatus.  
Specific hazards: Take precautionary measures against static discharges. During processing, dust may form explosive mixture in air. Thermal decomposition can lead to release of irritating gases and vapors.

## 6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up: Sweep up and shovel into suitable containers for disposal. Do not





create a powder cloud by using a brush or compressed air.

Personal precautions: See section 8.

Environmental precautions: Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

## 7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation.

All metal parts of the mixing and processing equipment must be earthed.

Storage: Keep tightly closed in a dry and cool place. Keep away from heat and sources of ignition.

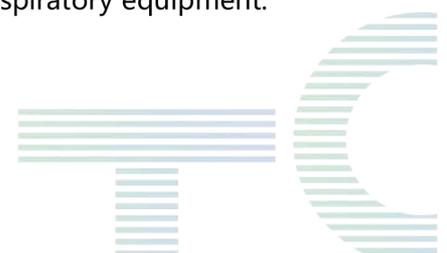
## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure: In the case of hazardous fumes, wear self contained breathing apparatus. Wear face-shield and protective suit for abnormal processing problems. Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation at machinery.

Hand protection: protective gloves

Eye protection: Safety glasses with side-shields

Respiratory protection: In the case of hazardous fumes, wear self contained breathing apparatus. In case of insufficient ventilation wear suitable respiratory equipment.





Skin and body protection: Long sleeved clothing.

Hygiene measures: When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	Pellets
Color:	Transparent
Odor:	Not available
Melting point/range:	Not available
Autoignition temperature:	630 °C (1166 °F) estimated
Vapor pressure:	Negligible
Water solubility:	Insoluble
Evaporation rate:	Negligible
Specific gravity:	1.15~1.19; (water = 1)
VOC content(%):	Negligible
Explosive properties:	upper: Not determined lower: Not determined

## 10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions. Hazardous polymerisation does not occur.

Conditions to avoid: Avoid temperatures above 630 °C. To avoid thermal decomposition, Do not





overheat. Heating can release hazardous gases.

Hazardous decomposition

Traces of phenol, alkylphenols, diarylcarbonates.

products:

## 11. TOXICOLOGICAL INFORMATION

LD50/oral/rat: > 5000 mg/kg

LD50/dermal/rabbit: >2000 mg/kg

Subchronic toxicity: No data available.

Primary irritation: Substance does not generally irritate and is only mildly irritating to the skin.

Remarks: The toxicological data has been taken from products of similar composition

## 12. ECOLOGICAL INFORMATION

Ecotoxicity effects: Do not flush into surface water or sanitary sewer system

Other information: Ecological damages are not known or expected under normal use.

## 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Where possible recycling is preferred to disposal or incineration. Dispose of in accordance with local regulations.

Contaminated packaging: Empty remaining contents.

Empty containers should be taken to an approved waste handling site for





recycling or disposal.

## 14. TRANSPORT INFORMATION

Transport Classification: Not regulated (ADR/RID, IMDG/IMO, ICAO, IATA-DGR)

## 15. REGULATORY INFORMATION

Reference to the Local, National, EU/International regulations.

Hazard Symbols: None

Safety Description: None

Risk Code: None

## 16. OTHER INFORMATION

This publication provides information and guidelines for safe handling and processing Topcentral® PMMA products and is based on currently available experience and knowledge. It is not designed as a comprehensive product performance data sheet, nor as a guide to application possibilities of our materials. Users should follow all applicable local regulations governing Health and Safety at work, and are requested to pass this publication on to all relevant employees and customers.

