



MATERIAL SAFETY DATA SHEET

1. Product Name and Company Information

1.1 Product Name: POLYESTER CHIPS FOR BOTTLE GRADE

1.2 Manufacturer: SINOPEC Yizheng Chemical Fibre Co., Ltd

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1.4 Valid from: June 25, 2003

2. Composition

Polymer by Purified Terephthalic Acid (PTA), Ethylene Glycol (EG) through polymerization

CAS NUMBER: 25038-59-9

Molecular Formula: $\text{HO}-[\text{CH}_2\text{CH}_2-\text{O}-\text{CO}-\text{C}_6\text{H}_4-\text{CO}-\text{O}]_n-\text{CH}_2\text{CH}_2\text{OH}$

Application: Manufacturing bottles for carbonated soft drinks (CSD), fruit juice, water and food oil. The test was performed by PIRA INTERNATIONAL, UK. USA FDA and EEC approval were granted. The latest report no: 2002/2080 and 2002/2081

3. Hazardous Identification

Molten material will produce thermal burns

Material can be burned

Powdered material may form explosive dust-air mixtures

4. First Aid

Eye contact

Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms persist.





Skin contact

If burned by contact with molten material, cool it as quickly as possible. Don't peel material from skin. Get medical attention as quickly as possible

Note to doctor: Burns should be treated the same way as scald. The material comes off as healing occurs, therefore, immediate removal from the skin is not necessary.

Ingestion

Material is not expected to be absorbed by the Gastroenteric tract.

5. Fire Fighting Measures

5.1 Extinguishing Agent:

Applicable: water, dry powder extinguishing agent and CO₂ Extinguishing agent

Not Applicable: Fire caused by short circuit can not be put out by water.

5.2 Special Firefighting Measures

Fire-man must wear self-contained breathing apparatus and fireproof clothes.

5.3 Special hazardous: none

6. Accidental Release Measure

Pay attention that material can be burned.

7. Packing, Storage and Handling

7.1 Packing: Packed by two layers packing. Inside packing is PE film bag. Outside packing is PP woven bag.

7.2 Storage: In cool and ventilated warehouse. Far from fire and heat sources. Prevent from direct sunshine.

7.3 Handling: Careful loading and unloading. Prevent the bag from damage. Handling according to the warning identification

7.4 Personal Precautionary measure: none

7.5 Fire and explosion proof: isolation from oxidizing material.

8. Exposure Control and Personal Protection

8.1 Supplementary local exhaust ventilation, closed systems and respiratory protection should be needed in special circumstances such as poorly ventilated spaces, mechanical generation of dusts, heating drying, etc.





8.2 Personal Protection Equipment:

Respiratory Protection: If engineering controls do not maintain airborne concentrations to an acceptable level, respirator must be worn.

Respirator type: dust

Eye protection: According to industrial hygiene practice, try to minimize eye contact with material by wearing eye protecting glasses.

Skin protection: When material is heated, wear gloves to prevent against thermal burns.

Protection facilities: eye washing facilities

9. Physical and Chemical Properties

Physical Form: solid

Color: cream colored

Odor: no special odor

Specific Gravity: 1.39 g/cm³

Melting Point: 247°C–254°C

Boiling point: not applicable

Thermal decomposition: 415°C

Flammability Point: 450°C

Flammability Limits: LOI = 21%–22%

Flaming Heat: No data. No significance for other items

10. Stability and Reactivity

Stability: stable

Hazardous Polymerization: will not occur

Burning decomposition material: It is possible to produce carbon monoxide and acetaldehyde and other hazardous organic material.

11. Toxicological Information

Ingestion: The polymer is composed of PTA and MEG. Normally no matter whether the monomer itself which composes polymer is toxic or none-toxic, the polymer is none-toxic material. But under certain circumstances, when the polymer which is composed of toxic monomer is degraded to monomer, it can be hazardous.





12. Ecological Information

This material has not been tested for environmental effects.

13. Disposal Consideration

Discharge, treatment or disposal must be subject to national, state or local laws and regulations.

14. Transportation Information

Doesn't belong to dangerous category. No special requirement for transportation.

15. Regulatory Information

Solid Waste Environmental Pollution Processing Regulation by The People's Republic of China.

16. Other Information

The data given here is based on the current knowledge and experience and believed to be correct. However, SINOPEC Yizheng Chemical Fibre Co., Ltd makes no warranty that the data given here is not all the time valid and correct on all the circumstances. The customer may make independent and appropriate decisions based on the information sourced from other ways so as to make sure the appropriate transportation, the safety of employees and protection of the environment.

