

SECTION I – CHEMICAL PRODUCT IDENTIFICATION

Chemical Name: Polymethylpentene Copolymer
 Trade Name or Synonym: Expanders

Chemical Family: Polyolefins
 Formula: N/A

Distributor's Name:
 World Class Technology Corp.

Emergency Telephone Number:
 503-472-8320

Address:
 1300 NE Alpha Drive
 McMinnville, OR 97128
 USA

Information Telephone Number
 503-472-8320

Date Issued
 6/27/08

SECTION II – COMPOSITION/INFORMATION on INGREDIENTS

Ingredient Name	CAS Number	Exposure Limits	Concentration
4-Methyl-1-Pentene a-olefin-copolymer	None	N/A	

SECTION III – HAZARDS IDENTIFICATION

Hazardous Designation: Can burn in a fire; slippery, can cause falls if walked on, may cause environmental contamination

Potential Health Effects

Inhalation: Pellet is not responsible as a solid. At processing, high temperatures and fumes irritating to the eyes, nose and throat may be produced. This exposure may result in reddening, tearing and soreness in the nose and throat together with coughing.

Ingestion: The material is believed to present very little hazard if swallowed.

Skin Contact: Not irritating. Rubbing may cause irritation similar to sand or dust. Molten polymer contacting the skin will cause thermal burns.

SECTION IV – FIRST AID MEASURES

First Aid for Eyes: Immediately flush with water for at least 5 minutes. Consult a physician if symptoms persist.

First Aid for Skin: The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. If molten polymer gets on skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Get medical treatment for thermal burn.

First Aid for Inhalation: If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.

First Aid for Ingestion: No adverse effects believed by swallowing a small amount. Consult a physician if necessary.

SECTION V – FIRE FIGHTING MEASURES

The material does not ignite easily; however, when burned without sufficient oxygen, emits dense smoke.

Suitable Extinguishing Media: Water fog, dry chemical, foam, CO2

Unsuitable Extinguishing Media: None

Protective Equipment for Firefighters: Wear full bunker gear, including a positive pressure, self-contained breathing apparatus in any closed space.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Measures for cleaning/collecting: Collect the scattered material into a container using a broom, vacuum cleaner or shovel and dispose of it. If pellets remain on the floor, they are likely to be slippery, so be sure to recover all. If the material has been spilled in a molten condition, cool it with water and dispose of it when it has been solidified. If the material has been spilled on the water surface, as in drain system, birds or fish may take it in, so recover all using a collecting device such as a screen of fine meshes.

SECTION VII – HANDLING and STORAGE

Storage Temperature (Min/Max): Ambient

Special Sensitivity: Keep ignition sources at a distance.

Handling Precautions: Avoid skin and eye contact and avoid breathing dust. Ground and bond containers when transferring material to prevent dust explosion. Pellet can create slippery conditions on floor and stairs may cause falls. Use good housekeeping practices to keep a clean area. Cool molding residues sufficiently before dispensing of them.

Storage Precautions: To prevent change of properties and inclusion of foreign materials, avoid direct sunlight, water leaks, high temperatures, high humidity and outdoor storage. Store the material away from fire or any heat source. Avoid excessive piling to prevent load shift and breakage of bags.

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SECTION VIII – PERSONAL PROTECTION

Exposure Control Limits:

ACGIH(1996)

Particulates Not Otherwise Classified (PNOC):

10 mg/m³ 8 hour TWA, Inhalible

3 mg/m³ 8 hour TWA, Respirable

Eye Protection Requirements: Use safety glasses. Provide safety shower and eyewash station near work area.

Skin Protection Requirements: Wear protective gloves to prevent skin contact. If there is potential contact with hot/molten material, wear heat resistant clothing and footwear.

Ventilation Requirements: There is a possibility of occurrence of volatile content, odor or dust during processing and molding; use local exhaust ventilations as necessary.

Respiratory Requirements: For most conditions, no respiratory protection should be needed; however, in dusty atmospheres, use an approved dust respirator.

SECTION IX – PHYSICAL and CHEMICAL PROPERTIES

Physical Form: Pellets

Color: Milk-white

Odor: Odorless

Autoflammability: 200°C or higher

Boiling Point: N/A

Melting-Freezing Point: 220-240°C

Solubility in Water: Insoluble

Flashpoint: 200°C or higher

Specific Gravity: 0.91 – 0.97

Bulk Density: N/A

Percent Volatile by Volume: N/A

Vapor Pressure: N/A

SECTION X – STABILITY and REACTIVITY

Thermal Decomposition: Stable under normal conditions.

Conditions to Avoid: Do not leave material outdoors.

Materials to Avoid: Oxidizing agents.

Hazardous Decomposition Products: CO, CO₂ in a fire

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity: No specific data are available

Skin Irritation: No irritation effect

Eye Irritation: No irritation effect

Skin Sensitization: No skin sensitizing effect

Subacute to Chronic Toxicity: No specific data are available

Additional Toxicological information: When used and handled according to specifications, the product does not have any harmful effects according to own experience and information provided.

SECTION XII – ECOLOGICAL INFORMATION

No specific data are available

Toxicity is expected to be low, based on negligible water solubility of polymer. As this material does not decompose in an environment over a long period of time, it may cause environmental contamination. Avoid dumping or releasing in oceans or water areas to prevent possible intake by marine organisms and birds.

SECTION XIII – DISPOSAL CONSIDERATIONS

Preferred options for disposal are: (a) recycling; (b) incineration with energy recovery; (c) landfill

The high fuel value of this material cannot be recycled. Any disposal practice must be in compliance with local and federal laws and regulations.

SECTION XIV – TRANSPORTATION INFORMATION

Not dangerous material according to these regulations. Make sure that the containers and packages are not damaged. Load and pile them so that they will not fall or get damaged. Be sure to take preventive measures against load shift. For transport, spread a cover sheet over the load to avoid inclusion of foreign materials or water and direct sunlight.

Designation according to EC guidelines: TPX is not subject to classification according to EC lists and other sources of literature available.

Classification according to VDF: None

Water Hazard Class: None

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MATERIAL SAFETY DATA SHEET

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SECTION XV – REGULATORY INFORMATION

SARA Title III

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazard Categories: None

Section 313 Toxic Chemicals: None

RERA Status: Non-hazardous

SECTION XVI – OTHER INFORMATION

HMIS Ratings: Health 0 Flammability 0 Reactivity 0

0=Minimal

1=Slight

2=Moderate

3=Serious

4=Severe

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