

## Material Safety Data Sheet Polypropylene Homopolymer

### Section 1 - Product Identification

Synonyms : Polypropylene (PP) Homopolymer  
Chemical Formula :  $C_{22}H_{42}O_3$   
Company Identification : Tradeasia International Pte. Limited  
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore  
Tel: +65-6227 6365  
Fax: +65-6225 6286  
Email: [contact@chemtradeasia.com](mailto:contact@chemtradeasia.com)  
Recommended use : Thin-wall application, household article, closures & multi cavities injection molding etc

### Section 2 – Hazards Identification

#### 2.1 Classification

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

**Signal Word** N.A.

**Hazard Statements**

N.A.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Section 3 – Composition/Information on Ingredients

#### 3.1 Composition comments

Formula :  $C_{22}H_{42}O_3$

Molecular weight : 354.6 g/mo

CAS-No. : 9003-07-0

Chemical Name	EC No/CAS No	Purity, %
Polypropylene	9003-07-0	max. 99.9

### Section 4 – First-Aid Measures

#### 4.1. Description of first aid measures

**General Advice** If symptoms persist, call a physician.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

#### **4.2. Most important symptoms and effects, both acute and delayed**

N.A.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

N.A.

### **Section 5 – Fire Fighting Measures**

#### **5.1. Suitable Extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **5.2. Specific hazards arising from the chemical**

Carbon oxides

#### **5.3. Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### **Section 6 – Accidental Release Measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### **6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### **6.3. Methods and material for containment and cleaning up**

Use a shovel to put the material into a convenient waste disposal container do not allow any potentially contaminated water with pellets to entry any waterway, sewer or drain.

### **Section 7 – Handling and Storage**

#### **7.1. Precautions for safe Handling**

Maintain good housekeeping. Keep away from heat, sparks, open flame or any ignition source. Use with adequate ventilation. After handling, always wash hands thoroughly with soap and water. Spilled pellet may create a slipping hazard. Electrostatic charge may build up during handling. Grounding of equipment is recommended.

## **7.2. Conditions for safe storage, including any incompatibilities**

Store in a dry place with adequate ventilation and away from direct sunlight, excessive heat and strong oxidizers. Keep packaging (container) closed to prevent contamination.

## **Section 8 – Exposure Controls/Personal Protection**

### **8.1. Appropriate engineering controls**

Use in a well-ventilated area. If handling results in dust generation, special ventilation may be needed to minimize dust exposure. If heated material generates vapour or fumes, use process enclosures, local exhaust ventilation, or other engineering controls to control exposure.

### **8.2. Individual protection measures, such as personal protective equipment (PPE)**

#### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

#### **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Control of environmental exposure**

Do not let product enter drains.

## **Section 9 – Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

Appearance and Odor : 3mm Ø Solid, Whitish in color and essentially odorless pellet

Organoleptic : Tasteless

Melting Point / freezing Point : 157 – 170°C / Not applicable

Initial Boiling Point : Not applicable

Flash Point : Not applicable, Combustible solid

Evaporation Rate (n-Butyl Acetate = 1) : Not applicable

Specific Gravity (H<sub>2</sub>O=1) : <1.0

Solubility (in water) : Insoluble

Viscosity : Solid, not applicable

Melt Index<sub>230°C/2.16kg</sub> : 35.0 gr/10min

Density : 0.903 gr/cm<sup>3</sup>

## Section 10 – Stability and Reactivity

### 10.1. Reactivity

N.A

### 10.2. Chemical stability

Stable under normal operating conditions of storage, handling and use.

### 10.3. Possibility of hazardous reactions

Not likely to occur under normal operating conditions of storage, handling and use.

### 10.4. Conditions to avoid:

Strong oxidizing agents. Temperature over 300°C, sparks and open flame.

### 10.5. Incompatible materials

Strong oxidizing agents, Chlorine, permanganates, for example potassium permanganate.

### 10.6. Hazardous decomposition products

Thermal decomposition products are highly dependent on the combustion conditions. A complex mixture of airborne solid. Liquid particulates and gases will evolve when this material undergoes pyrolysis or combustion. Carbon monoxide and unidentified organic compounds may be formed upon combustion.

## Section 11 – Toxicological Information

### 11.1 Health effects associated with ingredients

#### Symptoms related to toxicological characteristic

Material is considered essentially inert, non-toxic and practically not harmful as well as not hazardous substances under RoHS regulation. Exposures to high levels of dust or heated fumes may cause irritation.

#### Carcinogenicity

Material is not carcinogenic as listed by OSHA, NTP or IARC

## Section 12 – Ecological Information

### 12.1. Toxicity

Material is not expected to be harmful to aquatic organisms.

### 12.2. Bioaccumulative potential

N.A.

### 12.3. Mobility in soil

The product has low soil mobility. This material floats on water.

### 12.4. Other adverse effects

N.A.

## Section 13 – Disposal Considerations

### 13.1. Disposal methods

Place in an appropriate disposal facility in compliance with local regulations

## Section 14 – Transport Information

### 14.1 Transportation Classification

Not controlled under DOT (USA), TDG (Canada), ADR (Europe), IMDG and IATA

## Section 15 – Regulatory Information

### 15.1. Safety, health and environmental regulations

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication

## Section 16 : Additional Information

### 16.1. List of abbreviation and acronyms used in this MSDS

**SDS** : Safety Data Sheets

**Index N°** : atomic number of the element most characteristic of the properties of the substance

**CAS No** : Chemical Abstracts Service number

**EC No** : EINECS Number : European Inventory of Existing Commercial Substances

**Repr. Cat. 2** : Substance presumed human reproductive toxicant

**Acute Oral Cat. 5** : Substance which is of relatively low acute oral toxicity.

**GHS** : Globally Harmonised System of Classification and Labelling

**LD<sub>50</sub>** : Median Lethal Dose

**LC<sub>50</sub>** : Lethal Concentration, 50%

**N.A.** : Not Applicable

**OSHA** : Occupational Safety & Health Administration

**Cal OSHA** : The State of California Division of Occupational Safety and Health (DOSH)

**PEL** : Permissible Exposure Limits

**ACGIH** : American Conference of Governmental Industrial Hygienists

**TLV** : Threshold Limit Value

**Japanese MITI** : Japanese Ministry of International Trade and Industry

**EC<sub>50</sub>** : Half maximal effective concentration

**UN** : United Nations

**U.S. EPA TSCA Inventory**: Inventory of the chemical substances manufactured or processed in the United States according to Toxic Substances Control Act compiled and published under the authority of the Environmental Protection Agency

**Canadian DSL**: Canadian Domestic Substances List

### 16.2. List of relevant hazard statements and precautionary statements used in this MSDS

#### Hazard Statement

**H361 d**: Suspected of damaging the unborn child

**H319**: Causes serious eye irritation

**H303:** May be harmful if swallowed

### **Precautionary Statements**

#### **Prevention**

**P201:** Obtain special instructions before use.

**P202:** Do not handle until all safety precautions have been read and understood.

**P281:** Use personal protective equipment as required.

**P264:** Wash eyes thoroughly after handling.

**P280:** Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### **Response**

**P308 + P313:** If exposed or concerned: get medical advice/attention.

**P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

**P337+P313:** If eye irritation persists: Get medical advice/attention.

#### **Storage**

**P405:** Store locked up.

#### **Disposal**

**P501:** Dispose of contents/container to in accordance with local regulations.

### **16.3. References**

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  2. Denton SM (1996). Acute oral toxicity study in the rat: anhydrous boric acid. Final report. Report no.: 1341/7-1032.
  3. National Toxicology Program (NTP) – Technical Report Series No. TR324, NIH Publication No. 88 2580 (1987), PB88 213475/XAB
  4. Fail et al., Fund. Appl. Toxicol. (1991) 17, 225-239
  5. Heindel et al., Fund. Appl. Toxicol. (1992) 18, 266-277
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  9. Hansveit and Oldersma, 2000; TNO Nutrition and Food Research Institute. Report No. V99.157.
  10. Gersich, FM (1984a). Environ.Toxicol.Chem., 3 #1, 89-94 (1984)
  11. Soucek et al., 2010. Illinois Natural History Survey, University of Illinois.
- For general information on the toxicology of borates see ECETOC Technical Report No. 63 (1995); Patty's Industrial Hygiene and Toxicology, 4th Edition Vol. II, (1994) Chap. 42, 'Boron'.

### **16.4. Disclaimer of Liability**

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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 not be applicable.

**Tradeasia International PTE LTD**

133 Cecil Street # 12-03 Keck Seng Tower, Singapore 069535

Tel: +65-6227 6365 Fax: +65-6225 6286

[www.chemtradeasia.com](http://www.chemtradeasia.com)

