

The Polyolefin Company (Singapore) Pte Ltd

Safety Data Sheet

Chemical product & company identification:

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| Product name: | COSMOPLENE ® PP |
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| Grade name: | AW184, AW191, AW564, AW864, AX191, |
| | AX668, AX764, AZ161S, AZ191, AZ564G, AZ864, |
| | SPG153 |
| Recommended use: | Please refer to product catalogue |
| Manufacturer's name & address: | THE POLYOLEFIN COMPANY (S) PTE LTD |
| | Office: 150, Beach Road, #10-00 |
| | Gateway West. |
| | Singapore 189720 |
| | Plant: 400/401 Pulau Ayer Merbau |
| | Singapore 628285 |
| Telephone number: | +65 6292 9622 (Office) |
| Fax number: | +65 6293 8890, +65 6292 6595 |
| Emergency telephone number: | China: +86 532 8388 9090 (Within) |
| | +86 10 5100 3039 (To/ From) |
| | Asia-Pacific (excluding China): +65 3158 1074 |
| | Middle East: +44 (0) 1235 239 671 |
| | Europe: +44 (0) 1235 239 670 |

2 Hazards identification:

Classification and hazard symbol are not required according to GHS criteria.

3 Composition/information on ingredients:

| Chemical name: | Polypropylene (Block Copolymer) |
|------------------------------|--|
| Chemical formula: | Basic structure of (C3H6)n with blocks of ethylene |
| | - propylene copolymer |
| CAS No.: | 9010-79-1 |
| Major component name: | Ethylene-Propylene Copolymer |
| Percent by volume or weight: | > 99% |
| Component name: | Additives |
| Percent by volume or weight: | <1% |

4 First-aid measures:

| Inhalation: | If exposed to the thermal decomposition gas, remove the person from exposure to fresh air environment. If difficulty in breathing occurs, administer artificial respiration, followed by oxygen and seek medical attention immediately. | |
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| Contact: | | |
| Eye: | If irritation develop, seek medical attention immediately. | |



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| Okina | Dellet is inert and hormloss. If irritation develop |
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| Skin: | Pellet is inert and harmless. If irritation develop, |
| | seek medical attention immediately. If in contact |
| | with hot molten resin, do not peel off the hot |
| | molten resin from skin, but flush with plenty of |
| | water (min 15 minutes) to cool down the thermal |
| | burned skin quickly and then seek medical |
| | attention immediately. |
| Ingestion: | If illness or adverse symptoms develop, seek |
| | medical attention immediately. |

5 Fire fighting measures:

| Suitable fire-extinguishing media: | Water spray, foam, carbon dioxide, dry chemicals. | |
|--|---|--|
| Specific hazards: | Dense smoke and hazardous gases (Carbon monoxide and Carbon dioxide) will be emitted when it is burned without sufficient oxygen. Resin when melted will spread on the floor which it will catch fire easily. | |
| Protective clothing & breathing apparatus: | Wear appropriate safety equipment for fire conditions (including positive pressure self contained apparatus (SCBA) and protective fire- fighting garments). | |

6 Accidental release measures:

| Personal precautions & protection equipment: | When handling molten resin, use thermal resistant |
|--|--|
| | gloves. |
| Environmental precautions: | Keep pellet out of water sources and sewers. |
| Methods & materials for containment and | Spilled pellet is a slipping hazard. Sweep up and |
| cleaning up: | discard. In case of molten resin spillage, cool it down with water and then dispose accordingly. |
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7 Handling & storage:

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| Handling: | Wear appropriate personal protection equipment. | |
| | Material is in solid form and is non-hazardous. No | |
| | risk to the health of operators when handling at | |
| | room temperature. During processing, avoid | |
| | inhalation of the fumes and vapors. | |
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| Ventilation: | Workplace must be equipped with a good ventilation system and fume collector (if |
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| | necessary). |
| Storage container: | Store away from heat or flames. Have good housekeeping to prevent dust accumulation. Avoid contact with hot aromatic, chlorinated solvents and other hot strong oxidants. |
| Conditions of storage: | Not relevant. |

8 Exposure controls/personal protection:

| Occupational exposure limit: | No known applicable information |
|--------------------------------|--|
| Engineering controls: | Not relevant |
| Personal protective equipment: | |
| Eye protection: | Use safety glasses. |
| Skin protection: | Normal clothing. When handling hot molten resin, |
| | wear thermal resistant hand gloves. |

9 Physical & chemical properties:

| Appearance: | Solid, opaque / translucent pellet |
|---|---|
| Odour: | Odourless |
| Boiling points: | Not applicable |
| Melting points: (°C) | 162 ~ 168 |
| Vapour pressure: | Not applicable |
| Specific gravity: | 0.9 - 0.92 |
| Solubility in water: | Not soluble |
| Other properties: | Soluble in hot aromatic or chlorinated solvents |
| Autoignition temperature: (°C) | Not applicable |
| Thermal decomposition temperature: (°C) | > 300 |

10 Stability & reactivity:

| Stability: | Stable under normal temperature & pressure |
|-------------------------|---|
| Decomposition products: | Carbon monoxide and carbon dioxide may be |
| | generated. |
| Polymerization: | Will not occur |
| Incompatible materials: | Hot aromatic, chlorinated solvents and hot strong |
| | oxidants |



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11 Toxicological information:

| Toxicological information. | |
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| Routes of exposure: | Inhalation: Vapors produced are unlikely at room temperature (with reference to the physical properties). Dust may produce irritation to the mucous membrane of the nose, throat and upper respiratory tract. Skin contact: Essentially non-irritating but in contact with hot molten resin can cause severe burned. Ingestion: May cause choking if swallowed. Resin itself is inert and harmless. Ingestion must be avoided. |
| Acute effects: | No known applicable information |
| Chronic effects: | No known applicable information |

12 Ecological information:

| Mobility: | No known applicable information |
|--|---------------------------------|
| Persistence & biodegradability: | No known applicable information |
| Bio-accumulative potential: | No known applicable information |
| Aquatic toxicity & data relating to ecotoxicity: | No known applicable information |

13 Disposal considerations:

| Disposal methods: | Recover for reuse if possible. It may be buried on |
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| | an authorized landfill site or be incinerated, |
| | however these disposal methods shall comply |
| | with the local authorities legislation. |
| Disposal containers: | Not relevant |
| Precautions during waste handling: | Not applicable |

14 <u>Transport information:</u>

| Type of packaging: | Standard 25 kg resin bag, 650 kg fle-con bag or |
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| | sea bulk containers. |
| Transport requirements: | This material is not subjected to transport |
| | regulations. |

15 Regulatory information:

| Local regulations: | Reference to Singapore Standard SS 586, part 1, |
|----------------------------|--|
| | 2 & 3 |
| International regulations: | OSHA HAZARD COMMUNICATION STANDARD. This product is NOT a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. |
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16 Other information:

| Training advice: | Not required |
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| FDA information: | Not applicable |
| RoHS Compliance: | The substance regulated by the EU Directive 2002/95/EC on RoHS in electrical and electronic equipment are not used in the manufacture of this product and are therefore not expected to be present. |
| EINECS number: | None |
| Written references and/or technical contact points: | Not applicable |
| Sources of key data used to compile the data sheet: | Not applicable |
| Disclaimer: | The information is based on our current knowledge, is subjected to continuous updates and is intended to describe the product in regards to health, safety and environmental requirements. TPC makes no warranty of any kind, expressed or implied, regarding the accuracy of these data. |