

Preparation Date: 30/01/1997 Revision Date: 01/07/2000

MSDS Ref No : BP-1

WATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product name

COSMOPLENE ® PP

Grades

AV161

Chemical name

Polypropylene (Block Copolymer)

Chemical formula

Basic structure of (C3H6)n with blocks of ethylene -

propylene copolymer

CAS No

9010-79-1

2. COMPANY IDENTIFICATION

Manufacturer's name

THE POLYOLEFIN COMPANY (S) PTE LTD

Address

Office: 150, Beach Road #10-00 Gateway West.

Singapore 189720

Plant: 400/401 Pulau Ayer Merbau Singapore

Contact number (General

information/Sales Enquiry)

(65) - 292 - 9622 (Office)

3. INFORMATION ON INGREDIENTS

Component name

% by wt

CAS Reg No

Ethylene-Propylene Copolymer

Approximately > 99%

9010-79-1

Additives

Approximately < 1%

Various



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4. HAZARD IDENTIFICATION

Corrosive material

NO

Explosive material

: NO

Flammable material

It burns easily under fire

Reactive material

NO

Toxic material

NO

5. FIRST-AID MEASURES

Eye

If irritation develop, seek medical attention immediately.

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.

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.

Ingestion

If illness or adverse symptoms develop, seek medical

attention immediately.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken

Spilled pellet is a slipping hazard. Sweep up and discard.

Keep out of water sources and sewers.

In case of molten resin spillage, cool it down with water

and then dispose accordingly

Personal protective equipment

required

When handling molten resin, use thermal resistant gloves.

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7. FIRE FIGHTING MEASURES

Suitable fire fighting agents : Water spray, foam , carbon dioxide, dry chemicals

Precautions to be observed : 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 and breathing :

apparatus

Wear appropriate safety equipment for fire conditions

(including positive pressure self contained apparatus

(SCBA) and protective fire-fighting garments)

8. HANDLING AND STORAGE

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.

Storage condition : 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.

Ventilation : Workplace must be equipped with a good ventilation

system and fume collector (if necessary)

9. PERSONNEL PROTECTION EQUIPMENT

Eye protection : Use safety glasses.

Respiratory protection : Use dusk mask.

Skin protection : Normal clothing. When handling hot molten resin, wear

thermal resistant hand gloves.



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10. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Solid, opaque / translucent pellet

Odour : Odourless

Boiling points : Not applicable

Melting points / range : 164 - 168 °C

Vapor pressure : Not applicable Vapor density : Not applicable

Specific gravity ($H_2O=1$) : 0.9 - 0.92 Solubility in water : Not soluble

Solubility in other liquid : Soluble in hot aromatic, chlorinated solvents

Viscosity : Not applicable
PH : Not applicable

PH : Not applicable
Flash point : Not applicable
Flammability limits : Not applicable

Autoignition temperature : Not applicable

11. STABILITY AND REACTIVITY

Stability : Stable

Thermal decomposition : > 300 °C temperature

Incompatible materials : Hot aromatic, chlorinated solvents and hot strong oxidants

Conditions to avoid . Not applicable

Conditions to avoid : Not applicable

Hazardous decomposition : Carbon monoxide and carbon dioxide may be gen

Hazardous decomposition : Carbon monoxide and carbon dioxide may be generated. product

Hazardous polymerisation : Will not occur



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12. OVER EXPOSURE AND TOXICOLOGICAL INFORMATION

Route of entry and effect of over- :

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

Permissible exposure level

No known applicable information

13. ECOLOGICAL INFORMATION

Biodegrability

No known applicable information

Aquatic toxicity

No known applicable information

Mobility

No known applicable information

Bioaccumulative potential

No known applicable information

14. DISPOSAL CONSIDERATION

Disposal method

Recover for reuse if possible. It may be buried on an authorized landfill site or be incinerated, however these disposal methods shall comply with the local authorities legislation.



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15. PACKAGING AND TRANSPORT INFORMATION

Type of packaging : Standard 25 Kg Resin bag or 650 Kg flexcon bag

Special transport requirement : Not applicable

16. REGULATORY INFORMATION

- Under the Singapore Standard 286: Part 1: 1984, Classification and Class Labels for Hazardous Substances, Section 3.1, this product is NOT a "Hazardous Substance"
- OSHA HAZARD COMMUNICATION STANDARD. This product is NOT a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200
- 3. This material has such quality as products made from polypropylene will, as long as it is used unmodified and processed according to standard manufacturing practices in the industries, comply with the U.S. FDA Regulation 21 CFR 177.1520 (C) 3.2 a.

Note: Direct food contact is subjected to the extraction provisions of the regulation on the finished food contact article.

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