SUMITOMO CHEMICAL ASIA

Material Safety Data Sheet

SUMITOMO POLYPROPYLENE
BLOCK COPOLYMER

1. PRODUCT AND COMPANY IDENTIFICATION

		(Pre-marketing material only)
Product Name	Sumitomo Polypropylene – Block Copolymer	Cosmoplene PP
Supplier	Sumitomo Chemical Asia Pte Ltd	
Address	150 Beach Road #18-05/08, Gateway West Singapore 189720	
Telephone	+65 63035188	
Facsimile	+65 62989621	
		(Pre-marketing material only)
Manufacturer	Petrorabigh Refining & Petrochemicals Co.	The Polyolefin Company (Singapore) Pte. Ltd.
Address	P.O. Box 666 Rabigh 21911 Kingdom of Saudi Arabia	150 Beach Road #10-00, Gateway West Singapore 189720
Telephone	+966 2 4251855	+65 6292 9622
Facsimile	+966 2 4252732	+65 6293 8890

2. COMPOSITION / INFORMATION ON COMPONENTS

Chemical Name	Polypropylene (block copolymer)		
Chemical Family	Polyolefin		
Chemical Formula	(C3H6)n with blocks ethylene-propylene copolymer		
Composition and CAS Number	>99% wt	Ethylene-Polypropylene copolymer	CAS 9010-79-1
	<1% wt	Additives	Proprietary

3. HAZARDS IDENTIFICATION

Corrosive	No.
Flammable	Burns easily under fire.
Oxidizing	No.
Toxic	No.
Explosive	Dust and fines from the product carry risk of dust explosion.

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.
Eyes	Immediately flood the eyes with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.
Skin	Wash skin thoroughly with soap and water, obtain medical attention if irritation persists. If burned by contact with hot material, flush skin immediately with large amounts of cold water. If possible, submerge area in cold water. No attempt should be made to detach polymer adhering to the skin or to remove clothing attach with molten material. Thermal burns require immediate medical attention.
Ingestion	If illness or adverse symptoms develop, seek medical attention immediately.

5. FIRE FIGHTING MEASURES

Extinguishing media	Use water spray, foam, carbon dioxide (use for live electrical installation), or dry chemical.
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 will catch fire easily.
Protective equipments	Wear appropriate safety equipment for fire conditions (including self contained breathing apparatus and protective firefighting garments).

6. ACCIDENTAL RELEASE MEASURES

Protective equipments	When handling molten resin, use thermal resistant gloves.
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.

7. 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.
Ventilation	Workplace must be equipped with a good ventilation system and fume collector (if necessary).
Storage	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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controlled measures	Not applicable.
Eye protection	Use safety goggles.
Respiratory protection	Use dust mask.
Skin protection	Normal clothing. When handling hot molten resin, wear thermal resistant hand gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid, granule / pellet
Color	Translucent / opaque white
Density	~ 0.900g/cm³
Melting point	158°C – 168°C
Auto-flammability	>490°C
Solubility in water	Insoluble
Solubility in other solvent	Soluble in hot aromatic solvents / strong oxidizing agents

10. STABILITY AND REACTIVITY

Stability	Stable
Thermal decomposition	>300°C
Decomposition product	Carbon monoxide and carbon dioxide may be generated

11. TOXICOLOGICAL INFORMATION

Routes of entry	Inhalation : Vapors are unlikely to be generated at room temperature. Dust may produce irritation to the mucus membrane of the nose, throat and upper respiratory tract. Skin contact : Essentially non-irritating but in contact with hot molten resin can cause severe burns. 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
Hazard rating and permissible exposure level	No known applicable information

12. ECOLOGICAL INFORMATION

Mobility	If released to water the product will float.
Persistence and biodegradability	The material is not biodegradable.
Bio-accumulation	Product is not expected to bioaccumulate.
Ecotoxicity	The material is not toxic, however, it may cause harm to animals via ingestion if disposed improperly into the environment.

13. DISPOSAL CONSIDERATIONS

Product disposal	Recover for reuse or recycle if possible. Otherwise, incinerate in appropriate incinerators with energy recovery, or dispose of in landfills in accordance with local regulations.
Container disposal	Empty containers should be recovered for reuse or recycling or disposed of in landfills in accordance with local regulations.

14. TRANSPORT INFORMATION

Type of packaging	Standard 25 kg resin bag, flexible intermediate bulk container (flexcon / jumbo bag), or sea bulk containers.
Class	Not classified / restricted
Labeling	Not applicable
Special transport requirements	Not applicable

15. REGULATORY INFORMATION

International regulation	OSHA HAZARD COMMUNICATION STANDARD. This product is NOT a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

16. OTHER INFORMATION

Revision	08 May 2008
Distribution	This document shall be made available to all who may handle Sumitomo Polypropylene products.
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