

## MATERIAL SAFETY DATA SHEET

Product Name : NOVATEC-PP™ MG03B

Date Prepared : January 01, 2011

### 1. COMPANY IDENTIFICATION

Name of manufacturer : Japan Polypropylene Corporation  
Name of section : Quality Assurance Division  
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### 2. HAZARDOUS IDENTIFICATION

HAZARDOUS COMPONENTS	OSHA [PEL]	ACGIH [TLV]	CAS NO.
None			

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION & CAS No. : Ethylene-propylene co-polymer 9010-79-1

### 4. FIRST-AID MEASURES

Negligible hazard at ambient temperature.  
Only heated material and vapor and/or gases from heated material can be hazardous.

EYE CONTACT : Gently rinse affected eyes with clean water and get medical attention.

SKIN CONTACT : Immediately immerse in or flush affected area with large amount of water. If irritation persists, get medical attention.

INHALATION : Remove to fresh air and get medical attention.

INGESTION : Rinse mouth with clean water.  
(not normally required. An unlikely route of exposure)

### 5. FIRST-FIGHTING MEASURES

EXTINGUISHING MEDIA : Water spray, carbon di-oxide, dry-chemical powder.

SPECIAL FIRE FIGHTING PROCEDURES : Wear full protective gear and a positive pressure self-contained breathing apparatus in any closed space.

SPECIAL FIRE AND EXPLOSION: During a fire, irritating and toxic gases (carbon mono-oxide, carbon di-oxide and hydrocarbons etc.)  
HAZARDS may be generated by thermal decomposition or combustion.

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS : Sweep up, place in a bag and hold for waste disposal.  
Prevent spills from entering sewers, watercourses.

7. HANDLING AND STORAGE

HANDLING : Avoid rough handling or dropping.  
Keep container or paper bag tightly closed and avoid to be contaminated by dust or foreign materials.

STORAGE : Store at ambient temperature. Use normal room ventilation and keep away from direct sun light, heat, spark, dust and water.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

CONTROL PARAMETERS : N. Av.

ENGINEERING MEASURES

Ventilation : Provide adequate ventilation to avoid dust, and local exhaust ventilation of process equipment to avoid vapors and/or gases from heated material.

Respiratory Protection : Not required for most conditions. Use an air purifying respirator when vapors and/or gases from heated material may cause throat and nose irritation.

PERSONAL PROTECTION

Respiratory Protection : For most conditions, no respiratory protection should be needed. However, in dusty atmosphere, use dust respirator.

Hand Protection : Wear thermal resistant gloves where contact may occur with heated material.

Eye Protection : Wear goggles or equivalent eye protection.

Skin Protection : Wear body-covering clothing.

OTHER PROTECTIVE CLOTHING : Wear a face shield and arm protections where contact  
OR EQUIPMENT may occur with over-heated material.

WORK HYGIENIC PRACTICE : Wash and gargle after handling.

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE AND ODOR : Opaque solid pellets with slight odor.

BOILING POINT : N. Ap.

DENSITY (g/cm<sup>3</sup>) : ca. 0.88~0.91

VAPOUR PRESSURE (mmHg) : N. Ap.

VAPOUR DENSITY (Air=1) : N. Ap.

MELTING POINT ( ° F ) : ca. 275~330

SOLUBILITY IN WATER : Insoluble

SOLUBILITY IN ORGANIC SOLVENT : Slightly soluble

10. STABILITY & REACTIVITY

STABILITY : Stable under normal conditions.

FLAMMABILITY : Flammable by ignition sources.

SPONTANEOUS COMBUSTIBILITY : None.

FLAMMABILITY LIMITS IN AIR : LEL : N. Ap. UEL : N. Ap.

CONDITIONS TO AVOID : Temperature over 610° F may cause resin degradation.

MATERIALS TO AVOID : Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS : ① CO, acetaldehyde, hydrocarbons and oxidized hydrocarbons at high temperature.

: ② At processing temperature, thermal degradation will slightly occur.

HAZARDOUS POLYMERIZATION : Will not occur

REACTIVITY IN WATER : None

11. TOXICOLOGICAL INFORMATION

SIGNS AND SYMPTOMS OF EXPOSURE : This material is a solid polymer in pellet form and is not hazardous in normal storage and handling. In processing, vapor and/or gases from heated material may cause irritation and headache.

TOXICITY : None (rat).

CARCINOGENICITY : NTP : No  
I. A. R. C. : No (Group 3)  
OSHA : No

12. ECOLOGICAL INFORMATION

: N. Av.

13. DISPOSAL CONSIDERATIONS  
WASTE DISPOSAL METHOD

: Do not dump into sewers, on the ground or into  
any body of water.  
Burn in an adequate incinerator or bury in  
landfill in accordance with applicable local,  
state, and federal regulations.

14. TRANSPORT INFORMATION

Keep away from sources of ignition and oxidizing materials.  
Follow all regulations in your country.

15. REGULATORY INFORMATION

Follow all regulations in your country.

16. OTHER INFORMATION

The information contained herein is based on data considered accurate.  
No warranty, however, is expressed or implied regarding the accuracy of these  
data or the results to be obtained from the use thereof.  
JAPAN POLYPROPYLENE CORPORATION and any subsidiaries assumes no responsibility  
for personal injury or property damage to vendees, users or third parties caused  
by the material.  
Such vendees or users assume all risks associated with use of the material.

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【Note】

N. Ap. = Not Applicable

N. Av. = Not Available