



Material Safety Data Sheet

Section 1: General Information

Chemical Product and Company Identification

Trade name: Rainsmart Water Management Products
Sustainable Recycled Polypropylene

Code: RCY PP
MSDS# 001/2009

Chemical Names and Family: Recycled Polypropylene Moulded parts

Product Use: Construction Products

HMIS Ratings: Health 0, Fire 1, Reactivity 0,

Supplier: Rainsmart Solutions Pty Ltd.
2/12 Stoddart Rd, Prospect
NSW-2148, Australia

Validation Date : 27/09/2009
Print Date : 27/09/2009

Synonym: Polypropylene.
This MSDS covers grades of recycled polypropylene used to manufacture Rainsmart Products.

MSDS Name: Polypropylene - Recycled Grade

Chemical Family: Polymer.

Manufacturer: Hyplas Industries Sdn Bhd.
NO 12 JALAN TEKNOLOGI 3, PLO-5 KAWASAN PERINDUSTRIAN
MENGKIBOL 86000 KLUANG,
JOHOR DARUL TAKZIM, MALAYSIA

Section 2: Hazardous Ingredients/Identity Information

<u>Ingredient</u> (Chemical Name, CAS#, and Common Name)	<u>OSHA PEL or TWA</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
Polypropylene resin (9003-07-0)	N/A	N/A	0 - 5%
Recycled PP/PE	N/A	N/A	90– 95%
Carbon Black(1333-86-4) <i>*if requested</i>	3.5 mg/cm TWA	3.5 mg/cm TWA	0.5%
Minor Additives (Mixture)	N/A	N/A	< 1%



Section 3: Hazards Identification/Potential Effects

Overview: Based upon pertinent data available, polypropylene products are not hazardous under OSHA Hazard Communication Standard (29 CFR1910.120).

Routes of Exposure:

- Inhalation: Not likely, under normal use
- Skin contact: Yes
- Skin absorption: No
- Eye Contact: Yes

Symptoms of Acute Overexposure: Product may contain surface applied process lubricants that may cause skin to dry out.

Symptoms of Chronic Overexposure: No known health effects have been observed with normal use.

Medical Conditions Aggravated By Exposure: Persons with pre-existing skin disorders may be susceptible to effects of the material.

Carcinogenicity: See Section 11

Section 4: First Aid Procedures

Eye Contact: As with any foreign object, flush with water. If pain or irritation persists, consult physician.

Skin Contact: NO known EFFECT on skin contact, rinse with water for few minutes. Wash with soap and water. In case of irritation, consult physician.

Ingestion: N/A

Notes to Physician : Not available.

Section 5: Fire and Explosion Hazard Data

Flash Point (Method Used): Greater than 300°C

Flammable Limits: LEL: N/A UEL: N/A

Extinguishing Media: Water Fog Carbon Dioxide
 Regular Foam Dry Chemical Other

Special Fire Fighting Procedures: Material will not burn unless preheated. Over heated or molten material may burn slowly with dense smoke. As with any fire, wear approved self-contained breathing apparatus. Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full.

Unusual Fire and Explosion Hazards: Not applicable

Products of Combustion: Carbon oxides (CO, CO2) and soot.



Fire Hazards in Presence of Various Substances: No specific information is available in our database regarding the flammability of this product in presence of various materials.

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not expected.

Section 6: Accidental Release Measures

No environmental threat is expected from release.

Section 7: Handling and Storage

Storage: Store away from oxidizing materials, in cool dry area. Avoid direct sunlight.

Handling: No special handling used. Use lifting devices as necessary with safety when products stacked on pallet. If product is molten, avoid contact with skin or eyes.

Section 8: Exposure Controls/ Pallets will be heavy; use lifting devices for moving Personal Protection

Ventilation Requirements: Not required for normal use. If process generates dust, use ventilation to keep exposure below exposure limit.

Personal Protective Equipment:

Eye Protection: Not normally required.

Skin Protection: Not normally required. Persons with exposure sensitivity may need suitable gloves.

Respiratory Protection: Not required, unless dust generated, Other Clothing and Equipment: Normal work clothing.

Section 9: Physical and Chemical

Physical State: Solid Moulded Part

Molecular Formula: (C₃H₆)_x

Odour: Odourless

Specific Gravity (H₂O=1): 0.91 to 0.97

Vapor Pressure (mm Hg.): N/A

Vapor Density (Air =1): N/A

Solubility in Water: Not soluble.

Boiling Point: N/A

Molecular Weight: N/A

Taste: Tasteless

Critical Temperature: N/A

Evaporation Rate (Butyl Acetate=1): N/A

Melting Point: about 120-170 degrees

Section 10: Stability and Reactivity

Stability: Stable Unstable

Conditions to Avoid: Keep away from temperature above 300 °C (570 °F)

Incompatibility (Materials to Avoid): Incompatible or reactive with fluorine gas, oxidizing agents, free

halogens, benzene, petroleum ether, gasoline and lubricating oils, and aromatic and chlorinated hydrocarbons.

Hazardous Polymerization: May Occur Will Not Occur

Hazardous Decomposition Products (Including Combustion Products): Hazardous decomposition products are carbon monoxide, carbon dioxide, dense smoke, and various hydrocarbons.

Section 11: Toxicological Information

Eye Effects: Not Toxic

Skin Effects: Not toxic

Target Organs: None

Mutagenitive and Reproductive Effects: Not considered to be a hazard.

Toxicity to Animals LD50: Not available.

LC50: Not available.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None by NTP, None by OSHA. 3 (Not classifiable for human.) by IARC.

Other Toxic Effects on Humans: Not considered to be dangerous for humans according to our data base.

Special Remarks on Toxicity to Animals: No additional remark.

Special Remarks on Chronic Effects on Humans: No additional remark.

Special Remarks on Other Toxic Effects on Humans: No additional remark.

Section 12: Ecological Information

Environmental Data: Not expected to be hazardous to the environment in present form.

Section 13: Disposal Considerations

Disposal: Spent material should be recycled or disposed to an approved disposal area in accordance with federal, state, and local current regulations.

RCRA Hazard Class: Does not contain RCRA regulated materials.

Section 14: Transport information

DOT Classification: Non-hazardous

DOT Classification for Bulk Shipments: Not a DOT controlled material (United States).

DOT Proper Shipping Name: Not applicable.

UN Number: Not applicable.

Packing Group: Not applicable.



Marine Pollutant: Not listed in Appendix B to 49CFR172.101





Hazardous Substances Reportable Quantity: Not available.

Special Provisions for Transport: No additional remark.

TDG Classification: Not controlled under TDG (Canada).

IMO/IMDG Classification: Not controlled under IMDG.

ICAO/IATA Classification: Not controlled under IATA.

Section 15: Regulatory Information

HCS Classification: This product is NOT a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. Federal Regulations:

TSCA (Toxic Substance Control Act): Recycled Polypropylene Pellets, which are Raw Material to this product is listed on the OSCA Inventory.

SARA 301/302/303

No chemicals in this product are listed as extremely hazardous substances in 40 CFR 355, Emergency Planning and Notification (Appendix A to Part 355).

SARA 304

No chemicals in this product require reporting under the requirement of 40 CFR 355, Emergency Planning and Notification (SARA extremely hazardous substances listed in Appendix A to Part 355 or CERCLA hazardous substances listed in Table 302.4 of 40 CFR Part 302).

SARA 313

This product contains no chemicals in excess of the applicable de minimis concentration that are subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Table 372.65).

SARA 311/312

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and as such does not require reporting under the requirements of 40 CFR 370, Hazardous Chemical Reporting: Community Right-To-Know.

Specific state and local regulations should be consulted to determine if there are any additional requirements. Because many states and localities have added requirements or incorporated the Federal contents in their own forms, Tier I & II should be obtained from the State Emergency Response Commission (SERC).

Clean water act (CWA) 307: No products were found.

Clean water act (CWA) 311: No products were found.



Clean air act (CAA) 112 accidental release prevention: No products were found.

International Regulations

WHMIS (Canada)	Not controlled under WHMIS (Canada)
EINECS	Not available.
DSCL (EEC)	Not controlled under DSCL (Europe).
International Lists	No products were found.

**** Notice to Reader**

To the best of our knowledge, the information contained herein is accurate and driven from our suppliers MSDS. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.