



# Material Safety Data Sheet

## Section 1. Chemical Product and Company Identification

**Trade name** Mountain Valley Mobius Sustainable Recycled Polypropylene **MSDS#**

**Supplier** MOUNTAIN VALLEY RECYCLING  
5501 Jeffrey Lane  
Morristown, TN 37813 **Validation Date** 3/25/2008  
**Print Date** 11/20/2009

**Synonym** Polypropylene.  
This MSDS covers all grades of recycled Polypropylene. **Responsible for Preparation** MVR

**MSDS Name** Polypropylene - Recycled Grade

**Chemical Family** Polymer. **In Case of Emergency** MOUNTAIN VALLEY (423) 581-7558  
**Timothy Haynes**  
**V.P. Plant Operations**

**CAS Registry Number** 9003-07-0

**Threshold Limit Value** Not available. **Technical Information** MOUNTAIN VALLEY 5501 Jeffrey Lane  
Morristown, TN. 37813 (423) 581-7558

**Manufacturer** MOUNTAIN VALLEY RECYCLING  
5501 Jeffrey Lane  
Morristown, TN. 37813

## Section 2. Composition and Information on Ingredients

| Name                            | CAS #     | % by Weight | Exposure Limits |
|---------------------------------|-----------|-------------|-----------------|
| Mobius sustainable polypropylen | 9003-07-0 | 100         | Not available.  |

## Section 3. Hazards Identification

**Physical State and Appearance** Solid. Pellets.

**Emergency Overview** Irritating vapors to respiratory system and eyes may form when polymer is processed at high temperatures. Molten or heated material in skin contact can cause severe burns.

**Routes of Entry** FOR HOT MATERIAL: Skin contact. Eye contact. Inhalation.

**Potential Acute Health Effects**

**Eyes** This product is known to cause slight eye irritation. However, as with any chemical, some sensitive individuals **may** experience severe eye irritation upon contact.  
**Heated Polymer:** eye contact can cause serious thermal burns.  
Vapors formed when polymer is heated may be irritating to the eye.

**Skin** No known acute effects of this product resulting from skin contact at room temperature.  
**Heated Polymer:** skin contact can cause serious thermal burns.

**Inhalation** Negligible hazard at room temperature. Nuisance dusts can be irritating to the upper respiratory tract. Irritating vapors may form when the polymer is processed at high temperatures.

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|  |   |
|--|---|
| <b>Ingestion</b>                                     | No effects are expected for ingestion of small amounts. May be a choking hazard.  |
| <b>Potential Chronic Health Effects</b>              | <b>CARCINOGENIC EFFECTS:</b> Classified NONE by NTP, NONE by OSHA. 3 (Not classifiable for human.) by IARC.<br><b>MUTAGENIC EFFECTS:</b> Not available.<br><b>TERATOGENIC EFFECTS:</b> Not available. |
| <b>Medical Conditions Aggravated by Overexposure</b> | There is no known effect from chronic exposure to this product. Repeated or prolonged exposure is not known to aggravate medical condition.   |
| <b>Overexposure /Signs/Symptoms</b>                  | Not available.  |

See Toxicological Information (Section 11)

#### **Section 4. First Aid Measures**

|                           |   |
|---------------------------|---|
| <b>Eye Contact</b>        | Rinse with water for a few minutes. Seek medical attention if necessary   |
| <b>Skin Contact</b>       | <b>Polymer:</b> NO known EFFECT on skin contact, rinse with water for few minutes.<br><b>Heated Polymer:</b> For serious burns from heated polymer, get medical attention. In case of skin contact, immediately immerse in or flush with clean, cold water. |
| <b>Inhalation</b>         | Allow the victim to rest in a well ventilated area.   |
| <b>Ingestion</b>          | No First Aid procedures are needed.   |
| <b>Notes to Physician</b> | Not available.  |

#### **Section 5. Fire Fighting Measures**

|  |  |
|--|--|
| <b>Flammability of the Product</b>                         | May be combustible at high temperature.  |
| <b>Auto-ignition Temperature</b>                           | Not available.   |
| <b>Flash Points</b>  | Not available.   |
| <b>Flammable Limits</b>                                    | Not available.   |
| <b>Products of Combustion</b>                              | Carbon oxides (CO, CO2) and soot.  |
| <b>Fire Hazards in Presence of Various Substances</b>      | No specific information is available in our database regarding the flammability of this product in presence of various materials.  |
| <b>Explosion Hazards in Presence of Various Substances</b> | Risks of explosion of the product in presence of mechanical impact: Not expected.<br>Risks of explosion of the product in presence of static discharge: Possible.<br>Risk of explosion from dust accumulation of this product is possible. See MSDS section 7 Handling for more information. |
| <b>Fire Fighting Media and Instructions</b>                | SMALL FIRE: Use DRY chemicals, CO2, water spray, halon, or foam.<br>LARGE FIRE: Use water spray, fog or foam. Do not use water jet.  |
| <b>Protective Clothing (Fire)</b>                          | Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.  |

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**Special Remarks on Fire Hazards** Fire may produce irritating gases and dense smoke. Flowing material may produce static discharge, igniting dust accumulations.

**Special Remarks on Explosion Hazards** Processing or material handling equipment may generate dust of sufficiently small particle size, that when suspended in air may be explosive.

### **Section 6. Accidental Release Measures**

**Small Spill and Leak** Pellets on the floor could present a serious slipping problem. Good housekeeping must be maintained at all times to avoid this hazard. Pellets on the floor could present a serious slipping problem.

**Large Spill and Leak** Use a shovel to put the material into a convenient waste disposal container. Do not allow any potentially contaminated water with pellets to enter any waterway, sewer or drain.

### **Section 7. Handling and Storage**

**Handling** Handling of plastic may form nuisance dust. Protect personnel. Pneumatic material handling and processing equipment may generate dust of sufficiently small particle size that, when suspended in air, may be explosive. Dust accumulations should be controlled through a comprehensive dust control program that includes, but is not limited to, source capture, inspection and repair of leaking equipment, routine housekeeping and employee training in hazards. See NFPA 654.

**Storage** Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

### **Section 8. Exposure Controls/Personal Protection**

**Engineering Controls** Use process enclosures, local exhaust ventilation, or other engineering controls to reduce exposure to vapors if polymer is heated. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### **Personal Protection**

*Eyes* Safety glasses.

*Body* Coveralls.

*Respiratory* Ventilation is normally required when handling this product at high temperatures. Wear appropriate respirator when ventilation is inadequate.

*Hands* Thermally insulated gloves required when handling hot material.

*Feet* Safety slip proof shoes in areas where spills or leaks can occur.

#### **Protective Clothing (Pictograms)**



**Personal Protection in Case of a Large Spill** Safety glasses. Coveralls. Gloves.

#### **Product Name**

Polypropylene Mobius Sustainable Recycled Grade

#### **Exposure Limits**

Not available.

**Consult local authorities for acceptable exposure limits.**

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## Section 9. Physical and Chemical Properties

|                                      |                               |              |                                    |
|--------------------------------------|-------------------------------|--------------|------------------------------------|
| <b>Physical State and Appearance</b> | Solid. Pellets.               | <b>Odor</b>  | Odorless.                          |
| <b>Molecular Weight</b>              | Not available.                | <b>Taste</b> | Not available.                     |
| <b>Molecular Formula</b>             | (C3H6)x                       | <b>Color</b> | Polypropylene, translucent pellets |
| <b>pH (1% Soln/Water)</b>            | Not applicable.               |              |                                    |
| <b>Boiling/Condensation Point</b>    | Not available.                |              |                                    |
| <b>Melting/Freezing Point</b>        | 120 to 170 °C (248 to 338 °F) |              |                                    |
| <b>Critical Temperature</b>          | Not available.                |              |                                    |
| <b>Specific Gravity</b>              | 0.91 to 0.97 (Water = 1)      |              |                                    |
| <b>Vapor Pressure</b>                | Not available.                |              |                                    |
| <b>Vapor Density</b>                 | Not available.                |              |                                    |
| <b>Volatility</b>                    | Negligible.                   |              |                                    |
| <b>Odor Threshold</b>                | Not available.                |              |                                    |
| <b>Evaporation Rate</b>              | Not available.                |              |                                    |
| <b>VOC</b>                           | Not available.                |              |                                    |
| <b>Viscosity</b>                     | Not available.                |              |                                    |
| <b>LogK<sub>ow</sub></b>             | Not available.                |              |                                    |
| <b>Ionicity (in Water)</b>           | Not available.                |              |                                    |
| <b>Dispersion Properties</b>         | Not available.                |              |                                    |
| <b>Solubility in Water</b>           | Insoluble in water.           |              |                                    |
| <b>Physical Chemical Comments</b>    | No additional remark.         |              |                                    |

## Section 10. Stability and Reactivity

|  |  |
|--|--|
| <b>Stability and Reactivity</b>                | The product is stable. Avoid temperatures above 300 °C (570 °F).   |
| <b>Conditions of Instability</b>               | No additional remark.  |
| <b>Incompatibility with Various Substances</b> | Incompatible or reactive with fluorine gas, oxidizing agents, free halogens, benzene, petroleum ether, gasoline and lubricating oils, and aromatic and chlorinated hydrocarbons. |
| <b>Hazardous Decomposition Products</b>        | Hazardous decomposition products are carbon monoxide, carbon dioxide, dense smoke, and various hydrocarbons..  |
| <b>Hazardous Polymerization</b>                | No.  |

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### **Section 11. Toxicological Information**

|   |   |
|---|---|
| <b>Toxicity to Animals</b>                              | LD50: Not available.<br>LC50: Not available.  |
| <b>Chronic Effects on Humans</b>                        | <b>CARCINOGENIC EFFECTS:</b> Classified None by NTP, None by OSHA. 3 (Not classifiable for human.) by IARC. |
| <b>Other Toxic Effects On Humans</b>                    | Not considered to be dangerous for humans according to our data base.                                       |
| <b>Special Remarks on Toxicity to Animals</b>           | No additional remark.   |
| <b>Special Remarks on Chronic Effects on Humans</b>     | No additional remark.   |
| <b>Special Remarks on Other Toxic Effects on Humans</b> | No additional remark.   |

### **Section 12. Ecological Information**

|  |                       |
|--|-----------------------|
| <b>Ecotoxicity</b>                                       | Not available.        |
| <b>BOD5 and COD</b>                                      | Not available.        |
| <b>Biodegradable/OECD</b>                                | Not available.        |
| <b>Mobility</b>  | Not available.        |
| <b>Toxicity of the Products of Biodegradation</b>        | Not Available.        |
| <b>Special Remarks on the Products of Biodegradation</b> | No additional remark. |

### **Section 13. Disposal Considerations**

|                          |   |
|--------------------------|---|
| <b>Waste Information</b> | Transfer to an approved disposal area in accordance with federal, state, and local regulations. |
| <b>Waste Stream</b>      | Not available.  |

Consult your local or regional authorities.

### **Section 14. Transport Information (for bulk shipments, non-bulk shipments may differ)**

**DOT Classification for Bulk Shipments (non bulk shipments may differ)** Not a DOT controlled material (United States).



|                                 |                 |
|---------------------------------|-----------------|
| <b>DOT Proper Shipping Name</b> | Not applicable. |
| <b>UN Number</b>                | Not applicable. |
| <b>Packing Group</b>            | Not applicable. |

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|   |  |
|---|--|
| <b>USCG Proper Shipping Name</b>                | Polypropylene                            |
| <b>Marine Pollutant</b>                         | Not listed in Appendix B to 49CFR172.101 |
| <b>Hazardous Substances Reportable Quantity</b> | Not available.                           |
| <b>Special Provisions for Transport</b>         | No additional remark.                    |
| <b>TDG Classification</b>                       | Not controlled under TDG (Canada).       |
| <b>IMO/IMDG Classification</b>                  | Not controlled under IMDG.               |
| <b>ICAO/IATA Classification</b>                 | Not controlled under IATA.               |



**Section 15. Regulatory Information**

|                                 |  |
|---------------------------------|--|
| <b>HCS Classification</b>       | This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. |
| <b>U.S. Federal Regulations</b> | TSCA (Toxic Substance Control Act): This product is listed on the TSCA 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.

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### 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.

**State Regulations** No products were found.

California Proposition 65: There are no Cal. Proposition 65 chemicals in Mobius Sustainable Recycled Polypropylene Grade at levels that would require a warning under the California Safe Drinking Water and Toxic Enforcement Act.

### Section 16. Other Information

**Label requirements** Irritating vapors to respiratory system and eyes may form when polymer is processed at high temperatures. Molten or heated material in skin contact can cause severe burns.

### Hazardous Material Information System (U.S.A.)

|                     |   |
|---------------------|---|
| Health              | 0 |
| Fire Hazard         | 1 |
| Reactivity          | 0 |
| Personal Protection |   |

### National Fire Protection Association (U.S.A.)



**References** -HSDB - Hazardous Substances Data Bank  
-RTECS - Registry of Toxic Effects of Chemicals Substances

**Other Special Considerations** Acceptable business/technical terms necessary for medical device applications must be developed by contacting your TOTAL PETROCHEMICALS USA, INC. sales representative. Without such documented business terms, TOTAL PETROCHEMICALS USA, INC. makes no representations, and disclaims all warranties, express or implied, concerning biocompatibility and/or suitability of this product for medical device applications.

Validated by Daniel Schragar July 1, 2008  
Mountain Valley Recycling  
(423) 581 7558

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### Notice to Reader

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*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.*