# DYNA-PURGE M
## Safety Data Sheet

Revision Date: 7 Aug 2016
Version: 3.0

## Section 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier:
Product Name: Dyna-Purge M
Product Form: Mixture of pellets

1.2 Product Use: Thermoplastic Purging Compound

1.3 Manufacturer: Shuman Plastics
Address: 35 Neoga Street
Depew, NY 14043
Phone / Fax: (716) 685-2121 / (716) 685-3236

1.4 Emergency Phone: (716) 685-2121

1.5 Transportation
Emergency Phone: Chemtrec Emergency Number (800)424-9300 (US); (703)527-3887 (outside US)

## Section 2. HAZARDS IDENTIFICATION

2.1 Classification: Not classified as hazardous under established regulatory criteria OSHA Standard 29CFR-1910.1200 and CLP-Regulation (EC) No 1272/2008. Not classified as dangerous under EU Directive 67/548/EEC. Not assessed as PBT or vPvB substances according to Regulation (EC) No 1907/2006, Annex XIII.

2.2 Label Elements: In accordance with OSHA and CLP regulations, no labeling, including signal word, hazard and precautionary statements, is required.

2.3 Other Hazards:

Inhalation: Dust: Exposure to airborne concentrations may cause irritation of the nose, throat and lungs. Vapor: Melt processing may cause vapors which could cause irritation of the respiratory tract, coughing and shortness of breath.

Ingestion: No significant health hazards identified.

Skin: Possible skin irritation. Heated material can cause thermal burns.

Eyes: Dust may cause irritation. Vapors from heated material may cause irritation. Heated material can cause thermal burns.

## Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances: Not applicable

3.2 Mixtures: High molecular weight polymers classified as non-hazardous under OSHA Hazard Communication Standard 29CFR-1910.1200 and CLP-Regulation (EC) No 1272/2008 [CLP].

FDA Compliant ingredients (CFR Title 21, Part 177)

## Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

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| Inhalation: | Remove to fresh air. If breathing difficulty persists, get medical attention. |
| Eye contact: | Flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation occurs. |
| Skin contact: | Wash with soap and water. If burned by contact with hot material, flush skin with large amounts of water. Do not attempt to peel hot polymer from skin. Thermal burns require immediate medical attention. |
| Ingestion: | Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Get medical attention if symptoms occur. |

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

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| Inhalation: | Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. |
| Eye contact: | Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. |
| Skin contact: | No known significant effects or critical hazards. |
| Ingestion: | No known significant effects or critical hazards. |

Over-exposure signs/symptoms

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| Inhalation: | Adverse symptoms may include respiratory tract irritation and coughing. |
| Eye contact: | Adverse symptoms may include irritation and redness. |
| Skin contact: | No specific data. |
| Ingestion: | No specific data. |

4.3 Indication of any immediate medical attention and special treatment needed

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| Notes to physician: | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments: | No specific treatment. |

## Section 5. FIRE FIGHTING MEASURES

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| 5.1 Extinguishing Media: | Water spray (fog), foam or dry chemical. Do not use water jet. |
| 5.2 Special Exposure Hazards: | High dust concentrations have a potential for combustion or explosion. Heated material can form flammable vapors and irritating gases. Hazardous thermal decomposition products may include carbon dioxide, carbon monoxide, methyl methacrylate and low levels of aldehydes, ketones, organic acids or hydrocarbons. |
| 5.3 Special Protective Equipment for Fire Fighters: | Full protective clothing and NIOSH / MHSA approved self-contained breathing apparatus. |

## Section 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions: May be slippery; use care to avoid falling. Avoid breathing dust and vapor.

6.2 Environmental Precautions: Avoid dispersal of spilled material and runoff, and contact with soil, waterways, drains and sewers. Avoid creating dusty conditions and prevent wind dispersal.

6.3 Method for Clean Up: Vacuum or sweep up material and place in a designated labeled waste container. Keep dust to a minimum. Dispose of via a licensed waste disposal contractor.

## Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling: When handling hot material, wear heat resistant protective gloves, clothing and face shield that are able to withstand the temperature of the heated product. Do not inhale fumes or vapors from molten product. Avoid creating dust. Use adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities: Keep container closed. Store in a cool, well-ventilated area. Keep away from heat and direct sunlight. Incompatible with strong acids and oxidizers.

7.3 Specific end use(s): Thermoplastic purging compound.

## Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters:

Particulates ACGIH TLV (United States)
TWA: 10 mg/m³ 8 hour(s). Form: Inhalable
TWA: 3 mg/m³ 8 hour(s). Form: Respirable fraction

Methyl methacrylate (CAS # 80-62-6)
ACGIH TLV: 50 ppm, 410 mg/m³ 8 hours; STEL 100 ppm
OSHA: PEL 100 ppm, 410 mg/m³ 8 hours

8.2 Exposure Controls: Provide local ventilation or other engineering controls to keep airborne contaminants below any recommended or statutory exposure limits. Proper purging and shutdown procedures should be followed to avoid overheating. Keep purge piles small and purge into a vessel of water to solidify used compound and minimize vapors. Use good industrial housekeeping and hygiene practices.

Individual protection measures

Respiratory: Processing may produce dust and/or fumes. To minimize the risk of overexposure, it is recommended that a local exhaust system is placed above the equipment and that the working area is properly ventilated. If ventilation is inadequate, use certified respirator.

Eyes / Face: If heated, wear safety glasses with side shields or face shield.

Hands / Skin: Hot Material: Wear heat resistant protective gloves. Cold Material: None required; however, use of protective clothing is good industrial practice.

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance
Physical State: Solid pellets and granules
Color: Clear to opaque

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| Odor: | Odorless or mild odor |
| Odor Threshold: | Not available |
| pH: | Not available |
| Melting/Freezing Point: | 110°-150°C (230°-300°F) |
| Boiling Point: | Not available |
| Flash Point: | Not available |
| Evaporation Rate: | Not available |
| Flammability: | Not available |
| Vapor Pressure: | Not available |
| Vapor Density: | Not available |
| Density: | 0.92 – 1.18 |
| Solubility in water: | Negligible |
| Partition Coefficient, n-octanol/water: | No test data available |
| Autoignition Temperature: | 390°C (734°F) |
| Decomposition Temperature: | No test data available |
| Viscosity: | Not available |

9.2 Other Information: No additional information

## Section 10. STABILITY AND REACTIVITY

10.1 Reactivity: No test data available

10.2 Chemical Stability: Stable

10.3 Possibility of Hazardous Reactions: Will not occur under normal conditions of storage and use.

10.4 Conditions to Avoid: Stable under recommended storage and handling conditions. If heated >300°C, may form vapors or fumes which could cause irritation of the respiratory tract, coughing and shortness of breath. Keep away from open flame.

10.5 Incompatible Materials: Strong acids and oxidizing agents

10.6 Hazardous Decomposition Products: Thermal decomposition products are carbon monoxide and/or carbon dioxide and methyl methacrylate. Low levels of aldehydes, ketones, organic acids or hydrocarbons may be formed.

## Section 11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity: No data available

11.2 Inhalation: No data available

11.3 Dermal: No data available

11.4 Skin corrosion/irritation: No data available

11.5 Eye damage/irritation: No data available

11.6 Respiratory or Skin Sensitivity: No data available

11.7 Carcinogenicity: No component of this product at levels >0.1% is identified as a carcinogen by ACGIH, NTP, OSHA or IARC.

11.8 Reproductive Toxicity: No data available

## Section 12. ECOLOGICAL INFORMATION

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| 12.1 Eco-toxicity | No data available |
| 12.2 Persistence and Degradability | No data available |
| 12.3 Bioaccumulative Potential | No data available |
| 12.4 Mobility in Soil | No data available |
| 12.5 Results for PBT and vPvB Assessment | This product does not contain substances identified as PBT/vPvB |
| 12.6 Other Adverse Effects | No specific data available. Do not allow to penetrate soil, waterbodies or drains |

## Section 13. DISPOSAL CONSIDERATIONS

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| 13.1 Waste Disposal: | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Dispose of in accordance with all applicable local and national regulations. |
| 13.2 RCRA Classification: | Not hazardous under RCRA 40 CFR Part 261. |

## Section 14. TRANSPORT INFORMATION

14.1 UN number not regulated

14.2 Not regulated for transport (IMO/IMDG, IATA/ICAO, ADR/RID, DOT, TDG, Mexico)

## Section 15. REGULATORY INFORMATION

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| 15.1 US Federal Regulations: | United States Inventory (TSCA 8b): All components are listed or exempted.<br>SARA Title III 302 extremely hazardous materials: No products were found.<br>SARA Title III 311/312 hazardous materials: No products were found.<br>SARA Title III 313 toxic chemicals: Does not contain any chemical components with known CAS numbers that exceed the threshold (Di Minimus) reporting levels. |
| 15.2 WHMIS (Canada): | Not controlled under WHMIS. |
| 15.3 FDA: | FDA compliant ingredients (CFR Title 21, Part 177) |
| 15.4 REACH: | All components pre-registered, registered, or exempted, according to regulation. |
| 15.5 REACH SVHCs: | No SVHCs intentionally added. |
| 15.6 WEEE/RoHS2: | Does not contain any substances classified as hazardous. |
| 15.7 Global Inventories: | On inventory with: TSCA, IECSC, DSL, ENCS, EINECS, KECI, AICS, PICCS, NZIoC, NECI |

## Section 16. OTHER INFORMATION

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| 16.1 Hazardous Material Information System: | Health: 0 Flammability: 1 Physical Hazards: 0<br>The customer is responsible for determining the PPE code for this material. |
| 16.2 National Fire Protection System: | Health: 0 Flammability: 1 Instability: 0 |

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May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910, 1200. Standard must be consulted for specific requirements.