

# MATERIAL SAFETY DATA SHEET

(According to ISO 11014 format)

Revised date : 2014.07.05

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Product name : POLYAMIDE RESIN  
SP92-180-B BLACK  
(HT-85, BLACK)

Chemical name : Polymerized Fatty Acid Based Polyamide Resin

Company name : Moldman Systems, LLC.

4649 Aircenter Circle, Reno, NV. 89502

Emergency telephone : 886-7-6962211-3

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

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Ingredients	%	CAS NO.
Polyamide	100	68552-14-7

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## 3. HAZARDS IDENTIFICATION

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- (a). Emergency overview. : Amber solid with a mild amine odor, in bead form.  
(b). Safety hazards : Vapor of the molten resin will irritates eyes, nose and throat.  
Be careful not to involved in a burn accident by molten resin.  
Prolonged or repeated contact may cause mild irritation.
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## 4. FIRST-AID MEASURES

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- (a).Symptoms and effects : Vapor of the molten resin will irritates eyes, nose and throat.  
(b).Inhalation : Remove to fresh air if effects occur from inhalation of molten resin vapor or fumes, or resin dust.  
(c). Skin contamination : At the end of each work shift, wash skin with plenty of water and soap.  
(d). Eye contamination : In case of contact, immediately flush eyes with plenty of water.  
(e). Ingestion : Emergency care should not be needed.
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## 5. FIRE-FIGHTING MEASURES

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- (a).Suitable extinguishing media : Water fog, foam, carbon dioxide or dry chemical.  
(b).Special precautions : Toxic gases(carbon monoxide)may be released during fire.  
(c).Protective equipment : Positive-pressure, self-contained breathing apparatus and full protective clothing.
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## 6. ACCIDENTAL RELEASE MEASURES

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In a clean area, recover for reuse. Dispose of contaminated material.

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## 7. HANDLING AND STORAGE

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- (a). Handling : When handling molten resin, use adequate ventilation to avoid the accumulation of fumes. Use good housekeeping to prevent dust accumulation. Avoid contact with eyes, skin , and clothing. Wash thoroughly after handling.
- (b). Storage : Place or lay the bag in or on a well-grounded transfer container or chute. Before transferring the contents via the grounded container or chute to a receiver containing the flammable or combustible substance/ mixture, make sure that the transfer container or chute and receiver have a good common ground.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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- (a). Inhalation protection : Solid resin - For normal operation, no respiratory protection is required. A dust mask is recommended if resin dust is becomes airborne.  
Molten resin - An air purifying respirator designed for organic vapors should provide adequate protection.
- (b). Eye protection : Solid resin - Use safety glasses. An eyewash is recommended.  
Molten resin - Use chemical safety goggles. An eyewash is recommended.
- (c). Skin protection : Solid resin - As good industrial hygiene practice, impervious (for example , nitrile) gloves are recommended. Molten resin - Heat-resistance gloves and other protective clothing should be worn to prevent body contact. A safety shower is recommended.
- (d). Engineering controls : Use adequate ventilation. In process operations capable of generating static electricity and /or dust clouds ; grounding, venting, and explosion relief provisions must be used.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance/ state	: Black pellet solid.
Odor	: Mild amine.
Boiling point / boiling range	: -
Softening Point (RING&BALL)	: 177~195°C
PH	: -
Specific gravity	: -
Solubility	: soluble in aromatic and alcohol type co-solvent

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## 10. STABILITY AND REACTIVITY

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- (a). Chemical stability : Stable .
- (b). Condition to avoid : Formation of dust clouds. This product is not reactive with water
- (c). Chemicals to avoid : None known.
- (d). Hazardous polymerization : Will not occur under normal condition.
- (e). Hazardous decomposition products : Include toxic oxides of carbon.

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## 11. TOXICOLOGICAL INFORMATION

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The product is not on the International Agency for Research on Cancer(IARC) or National Toxicology Program(NTP) or OSHA lists of carcinogens or potential carcinogens.

OTHER : Molten resin can cause thermal burns.

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## 12. ECOLOGICAL INFORMATION

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There is no data available for this product.

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## 13. DISPOSAL CONSIDERATIONS

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Dispose of waste by landfill or incineration in accordance with all local, state, and federal Regulations.

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## 14. TRANSPORT INFORMATION

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DOT- Department of Transportation Hazardous Materials Regulations.

DOT Hazard Class : Not applicable.

DOT Proper Shipping Name : Not applicable.

DOT Identification Number : Not applicable.

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## 15. REGULATORY INFORMATION

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Not applicable.

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## 16. OTHER INFORMATION

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None.

To the best of our knowledge, the information contained in this sheet is correct. However, we do not take responsibility or liability or any consequences arising from its use.