Product Safety Assessment

MOR-MELT™ 100% Solids, Hot-Melt Laminating Adhesives


Select a Topic:
- Names
- Product Overview
- Manufacture of Product
- Product Description
- Product Uses
- Exposure Potential
- Health Information
- Environmental Information
- Physical Hazard Information
- Regulatory Information
- Additional Information
- References

Names
- MOR-MELT™ 804 Heat-Seal Coating
- MOR-MELT 805 Heat-Seal Coating
- MOR-MELT 807 Heat-Seal Coating
- MOR-MELT 809 Heat-Seal Coating
- MOR-MELT 902 Heat-Seal Coating

Product Overview
- MOR-MELT™ 100% solids, Heat-Seal Coating products are copolymers of ethylene and vinyl acetate (EVA). They are supplied as translucent white pellets.¹ For further details, see Product Description.
- They are used in various food, medical, and industrial applications as a heat-sealable outer layer for films.² For further details, see Product Uses.
- Dow does not sell these products for direct consumer use, but they are used to make films with which consumers may come into contact. Contact with these products is not considered to present a risk to consumers.¹ For further details, see Exposure Potential.
- Eye contact with vapors from heated product can cause slight irritation. Prolonged or repeated skin contact can cause slight irritation. Inhalation of dust can cause irritation of the nose, throat, and lungs. Inhalation of vapors from heated product can cause headache or nausea.³ For further details, see Health Information.
- MOR-MELT 100% solids, Heat-Seal Coating products are expected to slowly degrade in the environment. Because of their high molecular weight and low solubility in water, these products are not expected to accumulate in the food chain, and they are not expected to be toxic to fish or other aquatic organisms.¹,³ For further details, see Environmental Information.
- These products are stable at recommended storage and normal use temperatures, but can decompose at elevated temperatures.¹ For further details, see Physical Hazard Information.

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Created: April 9, 2015 The Dow Chemical Company Page 1 of 5
Product Safety Assessment: MOR-MELT™ 100% Solids, Hot-Melt Laminating Adhesives

Manufacture of Product
- **Locations** – Rohm and Haas Company, a wholly owned subsidiary of The Dow Chemical Company, and its global affiliates manufacture MOR-MELT™ Heat-Seal Coating products at various global locations.
- **Process** – MOR-MELT Heat-Seal Coating products are manufactured and formulated using proprietary materials and technology.

Product Description
MOR-MELT™ 100% solids, Heat-Seal Coating products are copolymers of ethylene and vinyl acetate (EVA). They may be formulated with extrusion aids or lubricants and substances to promote a tacky surface. They are supplied as translucent white pellets.

Product Uses
MOR-MELT™ 100% solids, Heat-Seal Coating products are intended for use in various food, medical, and industrial applications. They can be extruded onto various substrates using standard techniques, or may be coextruded with resins with similar properties to produce a heat-sealable outer layer on films. These materials can also be classified as non-blocking materials for thermal laminating process.

Exposure Potential
MOR-MELT™ 100% solids, Heat-Seal Coating products are used in the production of industrial and consumer products. Based on the uses for these products, individuals could be exposed through:
- **Workplace exposure** – Exposure can occur either in facilities that manufacture these products or in the various industrial or manufacturing facilities that use these products. They are produced, distributed, stored, and consumed in closed or well-ventilated systems. Those working with these products in manufacturing operations could be exposed during maintenance, sampling, testing, or other procedures. Each manufacturing facility should have a thorough training program for employees and appropriate work processes, ventilation, and safety equipment in place to limit exposure. See Health Information.
- **Consumer exposure** – Dow does not sell these products for direct consumer use, but they are used to make packaging and other items with which consumers may come into contact. Exposure to these products is not considered to present a risk to consumers. These products should comply with applicable standards set by the U.S. Food and Drug Administration (FDA) and European Union (EU) directives. See Health Information.
- **Environmental releases** – If released, the polymers will tend to float in water and will be removed in biological wastewater-treatment facilities. In the event of a spill, the focus is on containing the spill to prevent contamination of soil, surface water, or groundwater. Small spills of MOR-MELT 100% solids, Heat-Seal Coatings should be swept up. See Environmental, Health, and Physical Hazard Information.
- **Large release** – Industrial spills or releases are infrequent and generally contained. If a large spill does occur, the product should be captured, collected, and reprocessed or disposed of according to applicable governmental requirements. Respiratory protection is recommended for cleaning up spills, especially if vapors from heated product may be present. See Environmental, Health, and Physical Hazard Information.

For more information, request the Safety Data Sheet from the Dow Customer Information Group.

Health Information
Health information for MOR-MELT™ 100% solids, Heat-Seal Coating products is summarized on the relevant Safety Data Sheets. It is important to note that health risks associated with individual products may vary based on their formulation or intended use. The Safety Data Sheet is the preferred source for specific health information. These products may also contain minor components or additives that
**Product Safety Assessment: MOR-MELT™ 100% Solids, Hot-Melt Laminating Adhesives**

have additional health risks. These products are essentially inert plastics and are not expected to represent health hazards. An overview of health information for these products appears below.

**Eye contact** – Contact with vapors from heated product can cause slight eye irritation. Pellets or dust can cause mechanical irritation.

**Skin contact** – Prolonged or repeated contact can cause slight skin irritation.

**Inhalation** – Inhalation of dust can cause irritation of the nose, throat, and lungs. Inhalation of vapors from heated product can cause headache or nausea.

For more information, request the Safety Data Sheet from the Dow Customer Information Group.

**Environmental Information**
MOR-MELT™ 100% solids, Heat-Seal Coating products are not soluble in water and are not volatile. If released, the polymers would tend to float in water.

Although the polymers are not considered biodegradable, they are expected to degrade slowly in the environment, including degradation by physical action or upon exposure to sunlight. The polymers would be removed in biological wastewater-treatment facilities by skimming and other flotation methods.

Because of their high molecular weight and low solubility in water, the polymers are not expected to accumulate in the food chain, and they are not expected to be toxic to fish or other aquatic organisms.

For more information, request the Safety Data Sheet from the Dow Customer Information Group.

**Physical Hazard Information**
MOR-MELT™ 100% solids, Heat-Seal Coating products are stable at recommended storage and normal use temperatures, but can decompose at elevated temperatures. Avoid contact with strong oxidizers. Static charges can accumulate in handling equipment. Ground and bond all equipment.

For more information, request the Safety Data Sheet from the Dow Customer Information Group.

**Regulatory Information**
Regulations may exist that govern the manufacture, sale, transportation, use, and/or disposal of MOR-MELT™ 100% solids, Heat-Seal Coating products. These regulations may vary by city, state, country, or geographic region. Information may be found by consulting the relevant Safety Data Sheet, Technical Data Sheet, or Contact Us.

**Back to top**
**Product Safety Assessment:** MOR-MELT™ 100% Solids, Hot-Melt Laminating Adhesives

**Additional Information**

- Request the Safety Data and Technical Data Sheets from the Dow Customer Information Group (www.dow.com/assistance/dowcig.htm)
- Contact Us (www.dow.com/assistance/dowcig.htm)

For more business information about MOR-MELT™ 100% solids, Heat-Seal Coatings, contact the Dow Customer Information Group at www.dow.com/assistance/dowcig.htm.

**References**

2. MOR-MELT™ 805 Solid-Resin Heat-Seal Coating, Technical Data Sheet, Rohm and Haas Company
NOTICES

As part of its 2015 Sustainability Goals, Dow has committed to make publicly available safety assessments for its products globally. This product safety assessment is intended to give general information about the chemical (or categories of chemicals) addressed. It is not intended to provide an in-depth discussion of health and safety information. Additional information is available through the relevant Safety Data Sheet, which should be consulted before use of the chemical. This product safety assessment does not replace required communication documents such as the Safety Data Sheet.

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Back to top

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