Product Safety Assessment

Solvent-Based Splicing Adhesives

Product Safety Assessment documents are available at: www.dow.com/productsafety/finder/.

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Names
- Solvent-based splicing adhesives
- Splicing adhesive
- MOR-AD™ M-119 solvent-based adhesive products
- MOR-AD™ M-119 adhesive
- MOR-AD M-119 splicing adhesive
- MOR-AD M-119C splicing adhesive
- MOR-AD M-119C adhesive

Product Overview
- The MOR-AD™ M-119 series of adhesive products includes but is not limited to MOR-AD M-119 and MOR-AD M-119C. These materials are solvent-based liquids manufactured and marketed by Rohm and Haas Company, a wholly owned subsidiary of The Dow Chemical Company.¹ ² For further details, see Product Description.
- MOR-AD M-119 adhesive products are used in paper-splicing applications. ² For further details, see Product Uses.
- MOR-AD M-119 adhesive products are manufactured for industrial use. Occupational exposure is possible at a manufacturing facility or during product transfer or use. Exposure is minimized through engineering controls and the use of personal protective equipment. Consumer exposure that results from paper products spliced with MOR-AD M-119 adhesive products is expected to be negligible.¹ For further details, see Exposure Potential.
- Direct contact with these materials may cause moderate skin or eye irritation. Solvent can be absorbed through intact skin. Inhalation of solvent vapors may cause respiratory system irritation, dizziness, headache, and lack of coordination. Heavy paraffinic distillates in this product are known human carcinogens.¹ For further details, see Health Information.
- MOR-AD M-119 adhesive products are not soluble in water. These materials may bioaccumulate and are slow to biodegrade. MOR-AD M-119 adhesive products are very toxic to aquatic organisms.¹ For further details, see Environmental Information.
- MOR-AD M-119 adhesive products are extremely flammable and are considered an explosion hazard. These products are stable, but ignition sources and strong oxidizers should be avoided. Avoid temperature extremes when storing this product.¹ For further details, see Physical Hazard Information.

Footnotes:
¹Trademark of The Dow Chemical Company (“Dow”) or an affiliated company of Dow
²For further details, see Product Uses.
Manufacture of Product

- **Capacity** – The Rohm and Haas Company produces approximately 49,000 pounds (22 metric tons) per year of the MOR-AD™ M-119 series of adhesives in North America.
- **Process** – These adhesives are produced via proprietary processes.

Product Description

The MOR-AD™ M-119 series of adhesive products includes but is not limited to MOR-AD M-119 and MOR-AD M-119C. These materials are solvent-based liquids manufactured and marketed by Rohm and Haas Company, a wholly owned subsidiary of The Dow Chemical Company.

MOR-AD M-119 adhesive is a viscous, red liquid with a solvent odor. It is composed of butadiene polymer and modified rosin dissolved in heptane (CAS No. 142-82-5) and heavy paraffinic distillates (CAS No. 64742-65-0).

MOR-AD M-119C adhesive is a viscous, amber liquid with a solvent odor. It is composed of butadiene polymer and modified rosin dissolved in heptane (CAS No. 142-82-5) and heavy paraffinic distillates (CAS No. 64742-65-0).

Product Uses

MOR-AD™ M-119 adhesive products are used to perform stationary or “flying” splices or rewind applications when changing paper spools in printing or coating operations. They minimize manual operations and reduce labor and material costs. They are not approved for food-contact applications.

Exposure Potential

MOR-AD™ M-119 adhesive products are manufactured for industrial use. Based on the use for these materials, the public could be exposed through:

- **Workplace exposure** – Exposure can occur either in the facility that manufactures MOR-AD M-119 adhesive products or in manufacturing facilities that use these products. Those working with this product in manufacturing operations could be exposed during maintenance, sampling, testing, or other procedures. Customers using these adhesives typically apply them using a brush. Each manufacturing facility should have a thorough training program for employees and appropriate work processes, ventilation, and safety equipment in place to limit unnecessary exposure. See Health Information.

- **Consumer exposure to products containing splicing adhesives** – MOR-AD M-119 adhesive products are not sold for direct consumer use. Consumer exposure to finished products made using this adhesive is expected to be negligible. See Health Information.

- **Environmental releases** – In the event of a release, the focus is on containing the release to prevent contamination of soil and surface or ground water. For small spills, MOR-AD M-119 adhesive products should be absorbed with inert materials such as sand. Respiratory protection is necessary for cleaning up spills and leaks. These materials are not soluble in water. If released, the solvent (heptane) would quickly evaporate to the air. The balance would likely float. These materials are very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. See Environmental, Health, and Physical Hazard Information.

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• **Large release** – Industrial spills or releases are infrequent and are generally contained. If a large spill does occur, the material should be captured, collected, and reprocessed or disposed of according to applicable governmental requirements. Positive-pressure, self-contained breathing apparatus (SCBA) with an approved full-face mask is recommended for emergency work. Eliminate all sources of ignition immediately. Use only explosion-proof equipment. Ground and bond all containers and handling equipment. See Environmental, Health, and Physical Hazard Information.

• **In case of fire** – Deny any unnecessary entry into the area and consider the use of unmanned hose holders. If applicable, the public should be warned of vapor explosion hazards. Keep vapor out of sewers. Vapors can travel to a source of ignition and flash back. During a fire, irritating and toxic gasses and/or fumes may be generated during combustion or decomposition. Heptane, a solvent in this product, is extremely flammable. Eliminate all ignition sources to avoid an explosion and use explosion-proof exhaust ventilation with a minimum capture volume of 100 ft/min at the point of vapor evolution. Follow emergency procedures carefully. See Environmental, Health, and Physical Hazard Information.

For more information, see the relevant Safety Data Sheet.
Physical Hazard Information

MOR-AD™ M-119 adhesive products are stable. Avoid extremes in storage temperatures. Avoid contact with ignition sources and strong oxidizers.

Heptane, a solvent in this product, is extremely flammable. Eliminate all ignition sources to minimize the potential for explosion and use explosion-proof ventilation with a minimum capture volume of 100 ft/min at the point of vapor evolution.

For more information, see the relevant Safety Data Sheet.

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Regulatory Information

Regulations may exist that govern the manufacture, sale, transportation, use, and/or disposal of MOR-AD™ M-119 adhesive products. These regulations may vary by city, state, country, or geographic region. Information may be found by consulting the relevant Safety Data Sheet or Contact Us.

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Additional Information

- Safety Data Sheet (http://www.dow.com/webapps/msds/msdssearch.aspx)
- Contact Us (www.dow.com/assistance/dowcig.htm)


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References

1 MOR-AD™ M-119 Material Safety Data Sheet, Rohm and Haas Company, a subsidiary of The Dow Chemical Company
2 MOR-AD M-119 Splicing Adhesive, Technical Data, Packaging and Building Materials, Rohm and Haas Company, a subsidiary of The Dow Chemical Company

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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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Form No. 233-00692-MM-0315X