Product Safety Assessment
*MOR-MELT™ R-Cleaner Products*


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Names
- MOR-MELT™ R-Cleaner
- MOR-MELT R-Cleaner B

Product Overview
- MOR-MELT™ R-Cleaner and MOR-MELT R-Cleaner B are industrial cleaning products manufactured by Rohm and Haas Company, a wholly owned subsidiary of The Dow Chemical Company. They are waxy red solids.¹ For further details, see Product Description.
- MOR-MELT R-Cleaner products are used to purge (remove) MOR-MELT reactive hot-melt adhesives from process equipment prior to shutdown.² For further details, see Product Uses.
- Worker exposure to MOR-MELT R-Cleaner products is possible during manufacture, transport, or use. These products are for industrial use only. Consumer contact with these products is unlikely.³ For further details, see Exposure Potential.
- Eye contact with heated vapors or prolonged skin contact can cause slight irritation. Inhalation of heated vapors can irritate the nose, throat, and lungs.⁴ For further details, see Health Information.
- The wax and polymer components of MOR-MELT R-Cleaner products are expected to degrade slowly in the environment. They are unlikely to accumulate in the food chain and are not expected to be toxic to aquatic organisms. The aliphatic alcohol is biodegradable, has a moderate potential to bioconcentrate in aquatic organisms, and is practically nontoxic to aquatic organisms on an acute basis. For further details, see Environmental Information.
- MOR-MELT R-Cleaner products are stable under recommended storage and normal use conditions.⁵ For further details, see Physical Hazard Information.

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Manufacture of Product

- **Locations** – Rohm and Haas Company, a wholly owned subsidiary of The Dow Chemical Company, manufactures MOR-MELT™ R-Cleaner products in the United States at facilities in Ringwood, Illinois.
- **Process** – MOR-MELT R-Cleaner products are manufactured and formulated using proprietary Rohm and Haas materials and technology.

Product Description

MOR-MELT™ R-Cleaner products are pink/red, waxy solids. They are a mixture consisting primarily of a synthetic wax mixed with a polyolefin resin and an aliphatic alcohol.

Product Uses

MOR-MELT™ R-Cleaner products are used to purge MOR-MELT reactive hot-melt adhesives from process equipment, such as melting and dispensing equipment used with hot-melt coaters, prior to shutdown. This prevents the adhesive from curing in the equipment, which would make it difficult to remove during subsequent startups. MOR-MELT R-Cleaner products will bond to the adhesives, but will not cure by themselves. MOR-MELT R-Cleaner is particularly useful in purging adhesives with a viscosity of less than 4,000 centiPoise (cP) and MOR-MELT R-Cleaner B is particularly useful in purging adhesives with a viscosity 10,000 centiPoise (cP) or above. Their red color makes it easy to verify when the purge is complete.

Exposure Potential

MOR-MELT™ R-Cleaner products are used for industrial applications. Based on this, the public could be exposed through:

- **Workplace exposure** – Workers using MOR-MELT R-Cleaner products in manufacturing operations could be exposed during maintenance, sampling, testing, application, 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 to MOR-MELT R-Cleaner products** – This product is for industrial use only therefore there will be no cause for consumer exposure. See Health Information.
- **Environmental releases** – Due to the use pattern for these products, releases to the environment are expected to be minimal. In the event of a spill, the focus is on immediate clean-up to prevent contamination of soil, surface water, or groundwater. If released, the wax and polymer components will tend to float in water and will be removed in wastewater-treatment facilities by adsorption to biosolids. The aliphatic alcohol is biodegradable and is expected to be removed in wastewater-treatment facilities. See Environmental, Health, and Physical Hazard Information.
- **Large release** – Industrial spills or releases are infrequent and generally contained. If a large spill does occur, ventilate the area. Sweep up or vacuum spilled material and collect in suitable and properly labeled containers for disposal. See Environmental, Health, and Physical Hazard Information.
- **In case of fire** – Isolate the area and deny unnecessary entry. Use extinguishing measures that are appropriate for the surrounding environment. Firefighters should wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing. Contain fire water if possible to minimize the potential for environmental damage. Follow

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

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Health Information

Health information for MOR-MELT™ R-Cleaner 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 have additional health risks. An overview of health information for MOR-MELT R-Cleaner products appears below.

Eye contact – Contact with vapors from heated product can cause slight eye irritation.

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

Inhalation – Inhalation of vapors from heated product can cause irritation of the nose, throat, and lungs. Headache and nausea are also possible.

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

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Environmental Information

The wax, polymer, and aliphatic alcohol components of MOR-MELT™ R-Cleaner products are not volatile and not soluble in water. If released into the water environment, they will tend to float and will ultimately bind with soil, suspended particles, or sediment. They will be removed by biological wastewater-treatment facilities by adsorption to biosolids.

The wax and polymer components will slowly degrade in the environment, including degradation by physical action or by exposure to sunlight. The aliphatic alcohol is biodegradable and is expected to be removed from water and soil environments, including biological wastewater-treatment facilities.

The wax and polymer components are not likely to accumulate in the food chain (the bioconcentration potential is low) due to their high molecular weight, and they are not expected to be toxic to fish and other aquatic organisms. The aliphatic alcohol has a moderate potential to bioconcentrate and is practically nontoxic to aquatic organisms on an acute basis.

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

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Physical Hazard Information

MOR-MELT™ R-Cleaner products are stable under recommended storage and normal use conditions.

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Regulatory Information
Regulations may exist that govern the manufacture, sale, transportation, use, and/or disposal of MOR-MELT™ R-Cleaner 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.

Additional Information
- Request the relevant Safety Data Sheet from the Dow Customer Information Group (www.dow.com/assistance/dowcig.htm)
- Contact Us (www.dow.com/assistance/thoughts.htm) or (http://building.dow.com/contact/contact.htm)


References
4. MOR-MELT™ R-Cleaner B Safety Data Sheet, Rohm and Haas Company, February 16, 2009, Hazards Identification and Toxicological Information.

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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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