Product Safety Assessment

ADCOTE™ and ROBOND™ Heat-Seal Coatings and Water-Based EVA (Ethylene Vinyl Acetate) Dispersions


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Names
Trade names and grades for these products include but are not limited to:

- Water-based ethylene vinyl acetate dispersions
- Heat-seal coatings
- ADCOTE™ Heat-Seal Coatings
- ADCOTE 37JD991 Heat-Seal Coating
- ADCOTE 37JD1198 Heat-Seal Coating
- ADCOTE 37JD1198-20 Heat-Seal Coating
- ADCOTE 37P295 Heat-Seal Coating
- ADCOTE 37P295-30 Heat-Seal Coating
- ADCOTE 37P295 E Heat-Seal Coating
- ADCOTE 37P295 E-A Heat-Seal Coating
- ADCOTE 37P295 HV Heat-Seal Coating
- ADCOTE 37P295 HV E Heat-Seal Coating
- ADCOTE 37R345 Heat-Seal Coating
- ADCOTE 37R345 E Heat-Seal Coating
- ADCOTE 37R345 PS Heat-Seal Coating
- ADCOTE 37R345 PS E Heat-Seal Coating
- ADCOTE 37R929 Heat-Seal Coating
- ADCOTE 37R929 E Heat-Seal Coating
- ADCOTE 37R929 PS Heat-Seal Coating
- ADCOTE 37R929 PS E Heat-Seal Coating
- ADCOTE 37R987 Heat-Seal Coating
- ADCOTE 37R987-PS Heat-Seal Coating
- ADCOTE 37R987-PS E Heat-Seal Coating
- ADCOTE 37R972 Heat-Seal Coating
- ADCOTE 37R972-42 Heat-Seal Coating
- ADCOTE 37R972 E Heat-Seal Coating
- ADCOTE 37R972 E-42 Heat-Seal Coating
- ADCOTE 37T77 Heat-Seal Coating
- ADCOTE 37T77-25 Heat-Seal Coating
- ADCOTE 37T77 E Heat-Seal Coating
- ADCOTE 37WW654 Heat-Seal Coating
- ROBOND™ Heat-Seal Coatings
- ROBOND HS 37-138 Heat-Seal Coating
- ROBOND HS 37-140 Heat-Seal Coating
- ROBOND HS 37-144 Heat-Seal Coating
- ROBOND HS 37-145 Heat-Seal Coating
- ROBOND HS 37-148 Heat-Seal Coating
- ROBOND HS 37-149 Heat-Seal Coating
- ROBOND HS 37-149-1 Heat-Seal Coating
- ROBOND HS 37-149-2 Heat-Seal Coating
- ROBOND HS 37-150 Heat-Seal Coating
- ROBOND HS 37-151 Heat-Seal Coating

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Product Overview

- ADCOTE™ and ROBOND™ Heat-Seal Coatings and Water-Based EVA (ethylene vinyl acetate) Dispersions are white- to tan-colored, opaque liquids with a mild, sweet odor. For further details, see Product Description.
- ADCOTE and ROBOND Heat-Seal Coatings and Water-Based EVA Dispersions are used in various packaging applications, including medical and food packaging. For further details, see Product Uses.
- Exposure can occur either in facilities that manufacture these products or in the various industrial or manufacturing facilities that use these products. These products are not sold directly to consumers, but are used in products with which consumers may come into contact, such as food or medical packaging. Products used for food-contact or medical applications should comply with applicable standards for exposure so that they do not present a risk to consumers. For further details, see Exposure Potential.
- Eye contact may cause slight irritation. Contains component(s) that have demonstrated the potential for contact allergy in laboratory animals. Inhalation of vapor or mist may cause irritation of the nose, throat, and lungs. These products have low toxicity if swallowed, but contain component(s) that have been reported to affect the liver following repeated overexposure. Contains component(s) that have caused toxic effects to the fetus in laboratory animals at high levels. Lung inflammation, fibrosis, and lung tumors have been observed in laboratory animals exposed to very fine talc particles for their lifetime. For further details, see Health Information and the relevant Safety Data Sheet.
- The resins in ADCOTE and ROBOND Heat-Seal Coatings and Water-Based EVA Dispersions are expected to slowly degrade in the environment. Due to their high molecular weight, the resins are not expected to accumulate in the food chain and they are not expected to be toxic to fish or other aquatic organisms. For further details, see Environmental Information.
- These products are stable under recommended storage and use conditions. Keep these products from freezing. For further details, see Physical Hazard Information.

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Manufacture of Product

- Locations – ADCOTE™ and ROBOND™ Heat-Seal Coatings and Water-Based EVA Dispersions are manufactured in various global locations by Rohm and Haas Company, a wholly owned subsidiary of The Dow Chemical Company, and its global affiliates.
- Process – These products are produced using proprietary processes and materials.

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Product Description

ADCOTE™ and ROBOND™ Heat-Seal Coatings and Water-Based EVA Dispersions are a family of water-based ethylene vinyl acetate dispersions based on high molecular weight ethylene interpolymer. Some products may contain minor components or additives, such as talc. These products are supplied as white- to tan-colored opaque or milky liquids with a mild, sweet odor and range from 20 to 45% solids.

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Product Uses

ADCOTE™ and ROBOND™ Heat-Seal Coatings and Water-Based EVA Dispersions are used in high-performance packaging applications, such as pouches, lidding, and blister packs for medical and food packaging. These products may also be further compounded to produce other functional coatings.

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Exposure Potential

ADCOTE™ and ROBOND™ Heat-Seal Coatings and Water-Based EVA Dispersions are used in the production of industrial and consumer products. Based on the uses for this product, individuals could be exposed through:

- Workplace exposure – Exposure can occur either in facilities that manufacture ADCOTE and ROBOND Heat-Seal Coatings and Water-Based EVA Dispersions or in the various industrial or manufacturing facilities that use these products. They are produced, distributed, and stored in closed systems. Those working with these products in manufacturing operations could be exposed during

Environmental Information

These products are stable under recommended storage and use conditions. Keep these products from freezing. For further details, see Physical Hazard Information.
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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 prevent exposure. See Health Information.

- **Consumer exposure to products containing ADCOTE™ and ROBOND™ Heat-Seal Coatings and Water-Based EVA Dispersions** – Dow does not sell these products for direct consumer use, but they are used in products with which consumers may come into contact, such as food and medical packaging. Products used for food-contact or medical applications should comply with applicable standards set by the U.S. Food and Drug Administration (FDA) and European Union (EU) Directives concerning food-contact so that they do not present a risk to consumers. See Health Information.

- **Environmental releases** – In the event of a spill, the focus is on containing the spill to prevent contamination of soil, surface water, or groundwater. Small spills should be absorbed with materials such as sand. If released, the resins would initially disperse in water, but would be removed in wastewater-treatment facilities by adsorption to biosolids. 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. Keep people away and upwind of the spill. Spilled material may pose a slipping hazard. An approved respirator is recommended for emergency work. See Environmental, Health, and Physical Hazard Information.

- **In case of fire** – These products are not combustible until evaporated to dryness. The residue may be combustible. Use extinguishing media appropriate to the surrounding fire. Firefighters should wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing. Keep fire water out of waterways and sewers to minimize the potential for environmental damage. Follow emergency procedures outlined in the Safety Data Sheet carefully. See Environmental, Health, and Physical Hazard Information.

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

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Health Information²

Health information for ADCOTE™ and ROBOND™ Heat-Seal Coatings and Water-Based EVA Dispersions is summarized on the relevant Safety Data Sheet. It is important to note that health risks associated with individual products may vary based on their formulation or intended use. The Safety Data Sheets are the preferred source for specific health information. These products may also contain minor components or additives that have additional health risks. Refer to the Safety Data Sheet for details.

**Eye contact** – Contact may cause slight eye irritation.

**Skin contact** – Contains component(s) that have demonstrated the potential for contact allergy in laboratory animals.

**Inhalation** – Inhalation of solvent vapor or mist may cause irritation of the nose, throat, and lungs.

**Repeated or prolonged exposure** – Contains component(s) that have been reported to affect the liver following repeated overexposure.

**Cancer information** – Lung inflammation, fibrosis, and lung tumors have been observed in laboratory animals exposed to very fine talc particles for their lifetime.

**Other** – N-methyl pyrrolidone has caused toxic effects to the fetus in laboratory animals at high dose levels with either mild or undetectable maternal toxicity.

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

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Environmental Information³

Environmental information for ADCOTE™ and ROBOND™ Heat-Seal Coatings and Water-Based EVA Dispersions is summarized on the relevant Safety Data Sheet. It is important to note that environmental risks associated with individual products may vary based on their formulation and/or intended use. The Safety Data Sheets are the preferred source for specific environmental information.

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The resins in ADCOTE™ and ROBOND™ Heat-Seal Coatings and Water-Based EVA Dispersions are nonvolatile and insoluble. They will tend to float in water and eventually bind to soil, suspended particles, or sediment. Although the resins are essentially nonbiodegradable, they would be expected to degrade slowly in the environment, including degradation by physical action or by exposure to sunlight. The resins would likely be removed in wastewater-treatment facilities by adsorption to biosolids.

The resins in ADCOTE and ROBOND Heat-Seal Coatings and Water-Based EVA Dispersions will not likely accumulate in the food chain due to their high molecular weight, and they are not expected to be toxic to fish and other aquatic organisms.

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

Physical Hazard Information
ADCOTE™ and ROBOND™ Heat-Seal Coatings and Water-Based EVA Dispersions are stable under recommended storage and use conditions. Keep these products from freezing, as product stability may be affected. There are no known materials that are incompatible with these products.

For more information, request the relevant 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 ADCOTE™ and ROBOND™ Heat-Seal Coatings and Water-Based EVA Dispersions. 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 Safety Data Sheets and Technical Data Sheets from the Dow Customer Information Group (http://www.dow.com/assistance/dowcig.htm)
- Contact Us (http://www.dow.com/assistance/dowcig.htm)
- ROBOND™ HS 37-138 Heat-Seal Coating (Technical Data Sheet), Packaging and Building Materials, Rohm and Haas Company
- ROBOND™ HS 37-144 Heat-Seal Coating (Technical Data Sheet), Packaging and Building Materials, Rohm and Haas Company
- ROBOND™ HS 37-149 Heat-Seal Coating (Technical Data Sheet), Packaging and Converting, Rohm and Haas Company
- ADCOTE™ 37T77-25 Heat-Seal Coating (Technical Data Sheet), Packaging and Converting, Rohm and Haas Company
- ADCOTE™ 37R929 Heat-Seal Coating (Technical Data Sheet), Packaging and Converting, Rohm and Haas Company

For more business information about ADCOTE™ and ROBOND™ Heat-Seal Coatings and Water-Based EVA Dispersions, visit the Dow Packaging Products website at www.dow.com/products/market/packaging.
References

1  ROBOND™ HS 37-138 Heat-Seal Coating (Technical Data Sheet), Rohm and Haas Company
3  ROBOND™ HS 37-150 [Heat-Seal Coating] Material Safety Data Sheet, The Dow Chemical Company
4  ROBOND™ HS 37-144 Heat-Seal Coating (Technical Data Sheet), Rohm and Haas Company
5  ROBOND™ HS 37-149 Heat-Seal Coating (Technical Data Sheet), Rohm and Haas Company
6  ADCOTE™ 37JD1198-20 Heat-Seal Coating (Technical Data Sheet), Rohm and Haas Company
7  ADCOTE™ 37R929 Heat-Seal Coating (Technical Data Sheet), Rohm and Haas 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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