RHOPLEX™ Acrylic Primers for Plastic Film

Product Overview

RHOPLEX™ Acrylic Primers for Plastic Film are a family of acrylic emulsions supplied as white, milky liquids with an acrylic or ammonia odor.1,2,3 For further details, see Product Description.

RHOPLEX Acrylic Primers for Plastic Film are used as binders for coatings on plastic films.4 For further details, see Product Uses.

Exposure can occur either in facilities that manufacture RHOPLEX Acrylic Primers for Plastic Film or in the various industrial or manufacturing facilities that use these products. RHOPLEX Acrylic Primers for Plastic Film are not sold directly to consumers, but they are used in coatings on plastic films for media tapes and discs, so consumers may come into contact with them. Exposure to cured and/or dried product is not considered to present a risk to consumers.5 For further details, see Exposure Potential.

Exposure to individual components or the uncured product may cause slight to severe eye irritation. Prolonged or repeated skin contact may cause slight to severe irritation and skin burns or sensitization. Inhalation of vapor or mist may cause irritation of the nose, throat, and lungs, headache, nausea, dizziness, and may affect the central nervous system and in extreme instances may cause serious adverse effects, even death. Some products contain small amounts of formaldehyde, which is a potential sensitizer, and may represent an increased risk of respiratory cancer. Components of some products may be harmful if swallowed. Swallowing of these products may cause gastrointestinal irritation, abdominal pain, vomiting, diarrhea, and dizziness. Irritation to the mouth, throat, and stomach, or burns may occur. Components of some products have been shown to cause cancer (diphenyl ketone, CAS No. 119-61-9) or birth defects in laboratory testing.6 Prolonged or repeated overexposure to formaldehyde may cause an increased risk of respiratory cancer, particularly nose, throat, and lung cancer. For further details, see Health Information.

The resins in RHOPLEX Acrylic Primers for Plastic Film 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 aquatic organisms on an acute basis.7 For further details, see Environmental Information.

RHOPLEX Acrylic Primers for Plastic Film are stable under recommended storage and normal use conditions.8 For further details, see Physical Hazard Information.

References

1,2,3 The Dow Chemical Company ("Dow") or an affiliated company of Dow

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The Dow Chemical Company
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Manufacture of Product
- **Locations** – RHOPLEX™ Acrylic Primers for Plastic Film 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** – RHOPLEX Acrylic Primers for Plastic Film are produced using proprietary processes and materials.

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Product Description
RHOPLEX™ Acrylic Primers for Plastic Film are acrylic emulsions that are supplied as white, milky liquids with an acrylic or ammonia odor. These products range from 35% to 61% solids and consist of polymers suspended in water. Some products contain formaldehyde/melamine curing agents or small amounts of ammonia (CAS No. 7664-41-7) or formaldehyde (CAS No. 50-00-0).

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Product Uses
RHOPLEX™ Acrylic Primers for Plastic Film are used as binders for coatings on plastic films. One of the primary applications for these products is for coatings used to prepare magnetic media, such as audio and video tapes and computer discs.

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Exposure Potential
RHOPLEX™ Acrylic Primers for Plastic Film 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 RHOPLEX Acrylic Primers for Plastic Film or in the various industrial or manufacturing facilities that use these products. They are produced, distributed, and stored in closed systems. Those working with RHOPLEX Acrylic Primers for Plastic Film 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 prevent exposure. See Health Information.
- **Consumer exposure to products containing RHOPLEX Acrylic Primers for Plastic Film** – Dow does not sell RHOPLEX Acrylic Primers for Plastic Films for direct consumer use, but they are used as primers in plastic film for products such as media tapes and discs, so consumers may come into contact with them. Exposure to cured and/or dried product is not considered to 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. Respiratory protection is necessary for cleaning up spills and leaks. Spilled product may pose a slipping hazard. Small spills should be contained with inert materials such as sand or earth. If released to the environment, the resins in RHOPLEX Acrylic Primers for Plastic Film would tend to float in water and would be removed in biological wastewater treatment plants by adsorption to biosolids. These resins are considered to be practically non-toxic to aquatic organisms on an acute basis. 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 regulations. Respiratory protection is necessary for cleaning up spills and leaks. Keep spills out of waterways and sewers. 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 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 Information
Health information for RHOPLEX™ Acrylic Primers for Plastic Film 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. These products may also

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contain minor components or additives that have additional health risks. An overview of health information for RHOPLEX Acrylic Primers for Plastic Film appears below. However, the Safety Data Sheets are the preferred source for specific health information.

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

**Skin contact** – Prolonged or repeated contact may cause slight to severe skin irritation and skin burns and may cause sensitization.

**Inhalation** – Inhalation of vapor or mist may cause irritation of the nose, throat, and lungs, as well as headache, nausea, dizziness, and central nervous system effects and in extreme instances may cause serious adverse effects, even death. The formaldehyde present in some of these products is a potential sensitizer and may represent an increased risk of respiratory cancer.

**Ingestion** – Components of some products may be harmful if swallowed. Swallowing these products may cause gastrointestinal irritation, abdominal pain, vomiting, nausea, diarrhea, and dizziness. Irritation to the mouth, throat, and stomach, or burns may occur.

**Repeated exposure** – Prolonged or repeated overexposure to formaldehyde may cause an increased risk of respiratory cancer, particularly nose, throat, and lung cancer.

**Other** - Components of some products have been shown to cause cancer (diphenyl ketone, CAS No. 119-61-9) or birth defects in laboratory testing.

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

**Environmental Information**

Environmental information for RHOPLEX™ Acrylic Primers for Plastic Film is summarized on the relevant Safety Data Sheets. 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 Sheet is the preferred source for specific environmental information.

The resins in RHOPLEX Acrylic Primers for Plastic Film are high molecular weight polymers that are non-volatile. They are insoluble and will tend to float in water and eventually bind to soil, suspended particles, or sediment. Although the resins are essentially non-biodegradable, 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 biological wastewater-treatment facilities by adsorption to biosolids. These resins are not expected to accumulate in the food chain due to their high molecular weight and are expected to be practically non-toxic (LC/EC50 >100 mg/L) to fish or other aquatic organisms on an acute basis.

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

**Physical Hazard Information**

RHOPLEX™ Acrylic Primers for Plastic Film are stable under recommended storage and use conditions. Keep these products from freezing, as product stability may be affected. Monomer vapors may be generated when the product is heated during processing operations. Dried residue can burn, and the product can splatter above 100°C (212°F).

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 RHOPLEX™ Acrylic Primers for Plastic Film. 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

- Request the relevant Safety Data Sheet or Technical Data Sheet from the Dow Customer Information Group (www.dow.com/assistance/dowcig.htm)
- Contact Us (www.dow.com/assistance/dowcig.htm or www.dow.com/packaging/contact/index.htm)
- RHOPLEX™ 3208 Emulsion [Technical Data Sheet], Rohm and Haas Company, August 2004

For more business information about RHOPLEX™ Acrylic Primers for Plastic Film, contact the Dow Customer Information Group at www.dow.com/assistance/dowcig.htm or Dow Packaging and Films at www.dow.com/packaging/.

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References

7. RHOPLEX™ 3208 Emulsion Material Safety Data Sheet, Rohm and Haas Company, October 1, 2010, Ecological 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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