Product Safety Assessment

**ROBOND™ Water Based Acrylic Pressure Sensitive Paper Label Adhesives**


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**Names**

- ROBOND™ Paper Label Adhesives
- Acrylic polymer
- Acrylic emulsion polymer
- ROBOND PS-7440
- ROBOND PS-7619
- ROBOND PS-7725
- ROBOND PS-7850
- ROBOND PS-7860
- ROBOND PS-7874

**Product Overview**

- ROBOND™ Paper Label Adhesives are in all acrylic-water based pressure sensitive adhesives designed for various pressure-sensitive applications. For further details, see Product Description.
- ROBOND Paper Label Adhesives are used almost exclusively as adhesives for paper-label applications.¹ For further details, see Product Uses.
- These products are not sold for direct consumer use, but consumers may come in contact with them in adhesive formulations or in cured and dried form in products such as pressure-sensitive tapes or labels. For further details, see Exposure Potential.
- Eye or skin contact can result in slight irritation. Inhalation of vapor or mist can cause headache, nausea, and irritation of the nose, throat, and lungs.² For further details, see Health Information.
- ROBOND Paper Label Adhesives have limited biodegradability, but readily absorb onto wastewater-treatment biosolids and would be separated from effluents during normal wastewater-treatment processes. They would not be expected to bioconcentrate.² For further details, see Environmental Information.
- ROBOND Paper Label Adhesives are stable and do not undergo any known hazardous reactions.² For further details, see Physical Hazard Information.

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² Revised: October 13, 2014

The Dow Chemical Company
Manufacture of Product

- Locations – The Dow Chemical Company produces acrylic emulsion polymers in various U.S. locations.

Product Description

ROBOND™ Paper Label Adhesives are all acrylic-water based products designed for a number of pressure-sensitive applications. ROBOND adhesives are stable microsuspensions (emulsion) of acrylic polymer and hydrocarbon resin in water.

Product Uses

ROBOND™ Paper Label Adhesives are ready-to-use permanent, pressure-sensitive adhesives designed for use in paper-label applications.

Exposure Potential

ROBOND™ Paper Label Adhesives are used in the production of industrial and consumer products. Based on the uses for these products, the public could be exposed through:

- Workplace exposure – Exposure can occur either in an acrylic emulsion manufacturing facility or in manufacturing facilities that use this product. Those working with this product 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 to products containing ROBOND Paper Label Adhesives – Rohm and Haas does not sell this product for direct consumer use, but consumers may come in contact with these products in adhesive formulations or in cured and dried form in products such as pressure-sensitive tapes or labels. See Health Information.

- Environmental releases – Small quantities of these products may be released into the environment during processing. In the event of a release, the focus is on containing the spill to prevent contamination of soil and surface or ground water. Small spills should be absorbed with inert materials such as sand or soil. Because they will coagulate and bind to sewage treatment plant biosolids, these products would be expected to be removed by 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, the material should be captured, collected, and reprocessed or disposed of according to applicable governmental requirements. Respiratory protection is recommended for cleaning up spills and leaks because the odor may be unpleasant. Keep spills and cleaning runoff out of municipal sewers and open bodies of water. See Environmental, Health, and Physical Hazard Information.

- In case of fire – Deny unnecessary entry into the area. Although these products are not combustible, they can spatter when heated above 100°C (212°F), and the dried residue can burn. Use extinguishing techniques that are suitable for the materials surrounding the fire. Firefighters should wear positive-pressure, self-contained breathing apparatus and protective firefighting clothing when fighting the fire. Follow emergency procedures carefully. See Environmental, Health, and Physical Hazard Information.

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

Eye contact – Direct eye contact with these products can cause slight irritation.

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

Inhalation – Inhalation of vapor or mist from these products can cause headache, nausea, and irritation of the nose, throat, and lungs.

For more information, see the relevant Safety Data Sheet.

Environmental Information

Because of their high molecular weight and low water solubility, ROBOND™ Paper Label Adhesives would not be expected to bioconcentrate (accumulate in the food chain). The biodegradation of these product are considered limited. However, these products would likely absorb onto soil or typical wastewater-treatment biosolids and would be separated from liquid effluents.

For proper disposal, coagulate the emulsion by the stepwise addition of ferric chloride and lime. Separate the coagulant from the clear liquid and flush the liquid to a chemical sewer. Dispose of the solid material in accordance with local, state, and federal regulations.

Emulsion polymers such as ROBOND Paper Label Adhesives are of low concern with regard to aquatic toxicity.

For more information, see the relevant Safety Data Sheet.

Physical Hazard Information

ROBOND™ Paper Label Adhesives are stable products that do not undergo any known hazardous reactions. Although these products are not combustible, they can spatter when heated above 100°C (212°F), and the dried residue can burn. To maintain product quality, avoid extreme temperatures during storage. Keep the product from freezing. Do not store in heat or direct sunlight. At elevated temperatures, such as a fire, thermal decomposition of this product may yield acrylic monomers or hydrocarbon monomers.

For more information, see the relevant Safety Data Sheet.

Regulatory Information

Regulations may exist that govern the manufacture, sale, transportation, use, and/or disposal of ROBOND™ Paper Label Adhesives. 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

- Contact Us (www.dow.com/assistance/dowcig.htm)
- ROBOND™ PS-7440, PS-7619, PS-7725, PS-7850, PS-7860, PS-7874 Adhesive Technical Data Sheet, or Safety Data Sheet (request from the Dow Customer Information Group at www.dow.com/assistance/dowcig.htm)


References

1. ROBOND™ PS-7440, PS-7619, PS-7725, PS-7850, PS-7860, PS-7874 Adhesive Technical Data Sheet, Rohm and Haas Company
2. ROBOND PS-7440, PS-7619, PS-7725, PS-7850, PS-7860, PS-7874 Adhesive Material Safety Data Sheet, Rohm and Haas Company

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