Product Safety Assessment

HYPOD™ Polyolefin Dispersions for Textiles, Nonwovens, and Paper Coatings

Product Safety Assessment documents are available at www.dow.comproductsafety/assess/finder.

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Names
• HYPOD™ Polyolefin Dispersions for Textiles, Nonwovens, and Paper Coatings
• HYPOD Polyolefin Dispersions
• HYPOD 4501 Polyolefin Dispersion
• HYPOD 8102.02 Polyolefin Dispersion
• HYPOD 8501 Polyolefin Dispersion
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• HYPOD 8508 Polyolefin Dispersion
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• HYPOD 9501 Polyolefin Dispersion
• XU-31683 Polyolefin Dispersion
• XU-36534 Polyolefin Dispersion

Product Overview
• HYPOD™ Polyolefin Dispersions for textiles, nonwovens, and paper coatings are water-based dispersions of one or more ethylene-based copolymers. These products are white liquids with a very mild odor.\(^1\) For further details, see Product Description.
• These products are used to enhance the properties of textiles and nonwoven substrates and provide barrier properties to paper and paperboard products.\(^2,3\) For further details, see Product Uses.
• Exposure can occur either in facilities that manufacture HYPOD Polyolefin Dispersions or in the various industrial or manufacturing facilities that use these products. Dow does not sell these products for direct consumer use; however, they are used in products with which consumers may come into contact, such as paper products and textiles.\(^4\) For further details, see Exposure Potential.
• Direct eye contact may cause slight irritation. Prolonged or repeated skin contact may cause slight irritation. Heated product or mist may attain concentrations sufficient to cause respiratory irritation and other effects.\(^5,6\) For further details, see Health Information.
• HYPOD Polyolefin Dispersions are expected to degrade slowly in the environment. Due to their high molecular weight, the polymers are not expected to accumulate in the food chain, and they are not expected to be toxic to fish and other aquatic organisms.\(^7\) For further details, see Environmental Information.
• HYPOD Polyolefin Dispersions for textiles, nonwovens, and paper coatings are stable under recommended storage and normal use conditions.\(^8\) For further details, see Physical Hazard Information.

Footnotes:
\(^1\) Trademark of the Dow Chemical Company (“Dow”) or an affiliated company of Dow

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The Dow Chemical Company
Manufacture of Product

- **Location** – Rohm and Haas Company, a wholly owned subsidiary of The Dow Chemical Company, and its global affiliates produce HYPOD™ Polyolefin Dispersions at facilities in several global facilities.
- **Process** – HYPOD polyolefin dispersions are manufactured using proprietary processes and materials.

Product Description

HYPOD™ Polyolefin Dispersions for textiles, nonwovens, and paper coatings are water-based dispersions of one or more ethylene-based copolymers with a proprietary stabilizing system. The dispersions are nominally 40%–55% solids and are milky-white liquids with a very mild odor.

Product Uses

HYPOD™ Polyolefin Dispersions for textiles, nonwovens, and paper coatings are used to enhance the properties of textiles and nonwoven substrates and provide barrier properties to paper and paperboard products. Enabled with BLUEWAVE™ Technology, the dispersions impart the performance benefits of polyolefins with the ease of use of water-based applications techniques.

Adding HYPOD Polyolefin Dispersions to coatings offers a balance of properties, including heat sealability, moisture resistance/barrier, soft touch, elasticity, adherence to polar substrates, low temperature flexibility, chemical resistance, and others.

Exposure Potential

HYPOD™ Polyolefin Dispersions for textiles, nonwovens, and paper coatings 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 HYPOD Polyolefin Dispersions or in the various industrial or manufacturing facilities that use these products. They are produced, transported, and stored in closed containers until time for use. Those working with these 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** – Dow does not sell HYPOD Polyolefin Dispersions for direct consumer use; however, they are used in products with which consumers may come into contact, such as paper products and textiles. Once the consumer products are dried, the materials are not expected to pose an exposure risk. See [Health Information](#).
- **Environmental releases** – If released, HYPOD Polyolefin Dispersions will tend to float in water and will be removed in biological wastewater treatment facilities by adsorption to biosolids. In the event of a spill, the focus is on containing the spill to prevent contamination of soil, surface water, or groundwater. For small spills, HYPOD Polyolefin Dispersions should be collected in a suitable container for disposal. 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 area should be ventilated. The product should be captured, collected, and reprocessed or disposed of according to applicable governmental regulations. Respiratory protection is recommended for cleaning up spills and leaks. 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. Extinguishing measures appropriate to the surrounding environment should be used. Firefighters should wear positive-pressure, self-contained breathing apparatus (SCBA) and protective clothing. Fire water should be kept out of waterways and sewers to help minimize the potential for environmental damage. Fire conditions may release harmful gases. Emergency procedures should be carefully followed. 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 HYPOD™ Polyolefin Dispersions 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. An overview of health information for HYPOD Polyolefin Dispersions appears below. These materials may also contain minor components or additives that have additional health risks. The Safety Data Sheet is the preferred source for specific health information.

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

**Skin contact** – Prolonged or repeated contact may cause slight skin irritation.

**Inhalation** – Heated product or mist may attain concentrations sufficient to cause respiratory irritation and other effects. Repeated or prolonged exposure to aerosol or mist may irritate the nose, throat, and lungs.

**Ingestion** – These products have very low toxicity if swallowed. Harmful effects are not anticipated from swallowing small amounts.

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

Environmental Information

HYPOD™ Polyolefin Dispersions are high molecular weight polyolefins dispersed in water. The polymers are insoluble in water and have low volatility potential. If released, they would likely bind to soil, suspended solids, or sediment. Although the polymers are not biodegradable, they are expected to degrade slowly in the environment, including degradation by physical action or by exposure to sunlight. The polymers would likely be removed in biological wastewater treatment facilities by adsorption to biosolids. They are not expected to accumulate in the food chain due to their high molecular weight, and they are not expected to be toxic to fish or other aquatic organisms.

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

Physical Hazard Information

HYPOD™ Polyolefin Dispersions for textiles, nonwovens, and paper coatings are stable under recommended storage and normal use conditions.

There are no known materials which 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 HYPOD™ Polyolefin Dispersions for textiles, nonwovens, and paper coatings. 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 from the Dow Customer Information Group (www.dow.com/assistance/dowcig.htm)
- Contact Us (www.dow.com/assistance/dowcig.htm)

For more business information about HYPOD™ Polyolefin Dispersions for textiles, nonwovens, and paper coatings, visit the Dow HYPOD Polyolefin Dispersions website at www.dow.com/dowpod/index.htm.

References

3. XU 36534.00 Polyolefin Dispersion Enabled with BLUEWAVE™ Technology Technical Data Sheet, The Dow Chemical Company, Form No. AP10N016, Rev. 0, June 2010, page 1.
10. XU 36534.00 Polyolefin Dispersion Enabled with BLUEWAVE™ Technology Technical Data Sheet, The Dow Chemical Company, Form No. AP10N016, Rev. 0, June 2010, page 1.
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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