EVOQUE™ Pre-Composite Polymers

Product Overview

- **EVOQUE™ Pre-Composite Polymers** are a family of polymer emulsions in water, supplied as milky white liquids with an ammonia or acrylic odor. For further details, see Product Description.
- **EVOQUE Pre-Composite Polymers** are used as paint additives to help improve the particle distribution and light-scattering efficiency of titanium dioxide, a common pigment. For further details, see Product Uses.
- Exposure can occur either in facilities that manufacture EVOQUE Pre-Composite Polymers or in the various industrial or manufacturing facilities that use these products. Dow does not sell these products for direct consumer use, but they are used as additives in paints with which consumers may come into contact. Contact with the formulated product would not be considered to represent a risk. For further details, see Exposure Potential.
- Eye contact with undiluted product can cause slight irritation. Avoid prolonged or repeated skin contact as it can cause slight irritation. Inhalation of vapor or mist can cause headache, nausea, and irritation of the nose, throat, and lungs. For further details, see Health Information.
- The polymers in EVOQUE Pre-Composite Polymers 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.
- **EVOQUE Pre-Composite Polymers** are stable under recommended storage and normal use conditions. For further details, see Physical Hazard Information.

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Manufacture of Product

- **Location** – EVOQUE™ Pre-Composite Polymers are manufactured by The Dow Chemical Company and its global affiliates at facilities in Lauterbourg, France, and at other locations.
- **Process** – EVOQUE Pre-Composite Polymers are produced by emulsion polymerization using proprietary raw materials and processes.

Product Description

EVOQUE™ Pre-Composite Polymers are acrylic-based polymer emulsions in water, supplied as milky white liquids with an ammonia or acrylic odor. They typically contain 40 to 50% acrylate polymer. Product grades of EVOQUE Pre-Composite Polymers vary based on levels of diphenyl ketone (CAS No. 119-61-9) and/or aqua ammonia (CAS No. 1336-21-6), which are added to meet a range of formulating needs.

Product Uses

EVOQUE™ Pre-Composite Polymers are used as paint additives to help improve the particle distribution and light-scattering efficiency of titanium dioxide, a commonly used pigment. The products also help enhance the paint’s barrier properties and stain- and corrosion-resistance, and perform as binders and film-formers for the final coating. Products are available for use with acrylic-based paints, as well as with polyvinyl chloride (PVC) and polyvinyl alcohol (PVA) resins.

Exposure Potential

EVOQUE™ Pre-Composite Polymers are used in the formulation 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 EVOQUE Pre-Composite Polymers or in the various industrial or manufacturing facilities that use these products. Those working with EVOQUE Pre-Composite Polymers 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 EVOQUE Pre-Composite Polymers** – Dow does not sell EVOQUE Pre-Composite Polymers for direct consumer use, but they are used as additives in paint products with which consumers may come into contact. Contact with the formulated product would not be 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. For small spills, EVOQUE Pre-Composite Polymers should be absorbed with materials such as clay, sand, sawdust, or vermiculite. If released, the polymers will tend to float in water and be removed in biological wastewater treatment plants 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. Use appropriate safety equipment. Prevent from entering soil, ditches, sewers, waterways and/or groundwater. Recover spilled material if possible. If unable to recover, then proceed with appropriate cleanup methods. Absorb with materials such as clay, sand, sawdust, or vermiculite. Collect in suitable and properly labeled containers. Water may be used for final cleaning of affected areas. Washwater should be disposed of in accordance with local regulations. See Environmental, Health, and Physical Hazard Information.

In case of fire – To extinguish combustible residues of this product, use water fog, carbon dioxide, dry chemical, or foam. Under fire conditions, some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include, and are not limited to, carbon dioxide, carbon monoxide, dense smoke, and organic compounds. The material will not burn until the water has evaporated; residue can burn. Upon burning, the dry product generates dense, black smoke. Keep people away. Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (including fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used,
fight fire from a protected location or safe distance. Follow emergency procedures outlined in the Safety Data Sheet carefully. See Environmental, Health, and Physical Hazard Information.

For more information, see the relevant Safety Data Sheet.

Health Information

Health information for EVOQUE Pre-Composite Polymer-containing products is summarized on the relevant Safety Data Sheets. These materials may also contain minor components or additives that have additional health risks. 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. An overview of health information for EVOQUE Pre-Composite Polymer-containing products appears below.

**Eye contact** – Direct contact with the material can cause slight irritation.

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

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

**Other** – Some product grades contain small amounts (0.1 to 0.3%) of diphenyl ketone, which is listed by the IARC as a possible human carcinogen.

For more information, see the relevant Safety Data Sheet.

Environmental Information

Environmental information for EVOQUE™ Pre-Composite Polymer-containing products is summarized on the relevant Safety Data Sheets. These materials may also contain solvents or additives that have additional environmental impact. It is important to note that environmental impact associated with individual products may vary based on their formulation or intended use. The Safety Data Sheet is the preferred source for specific environmental information. An overview of environmental information for EVOQUE Pre-Composite Polymer-containing products appears below.

The polymers in EVOQUE Pre-Composite Polymers are insoluble and will tend to float in water and eventually bind to soil, suspended solids, or sediment. Although the polymers will not be expected to biodegrade, they will be 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. Due to their high molecular weight, the polymers are not expected to accumulate in the food chain (bioconcentration potential is low), and they are not expected to be toxic to fish and other aquatic organisms.

For more information, see the relevant Safety Data Sheet.

Physical Hazard Information

EVOQUE™ Pre-Composite Polymers are stable under recommended storage and normal use conditions. Protect these products from freezing, as product stability may be affected.

For more information, see the relevant Safety Data Sheet.
Product Safety Assessment: EVOQUE™ Pre-Composite Polymers

Regulatory Information
Regulations may exist that govern the manufacture, sale, transportation, use, and/or disposal of EVOQUE™ Pre-Composite Polymers. 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
- Safety Data Sheet (www.dow.com/webapps/msds/msdssearch.aspx)
- Contact Us (www.dow.com/coating/hiding/contact.htm)
- Dow Coating Materials website: We Know What You’re Thinking (www.dow.com/coating/hiding/how-evoque-works.htm)

For more business and technical information about EVOQUE™ Pre-Composite Polymers, visit the Dow Coating Materials website at www.dow.com/coating.

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References
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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