Product Safety Assessment

GREENPUR Organic-based Color Pastes


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Names
- GREENPUR™ 3012 Blu Oltremare Color Paste
- GREENPUR 3013 Verde Color Paste
- GREENPUR 3032 Blu Color Paste
- GREENPUR 3049 Giallo Color Paste
- GREENPUR 3051 Bruno Color Paste
- GREENPUR 3062 Blu Color Paste
- GREENPUR 3070 Rosso Color Paste
- GREENPUR 3072 Blu Color Paste
- GREENPUR 3200 Rosa Color Paste
- GREENPUR 3216 Verde Color Paste
- GREENPUR 3300 Bordeaux Color Paste
- GREENPUR 3310 Arancio Color Paste
- GREENPUR 3502 Violetto Color Paste

Product Overview
- GREENPUR™ Organic-based Color Pastes are solvent-based pastes containing organic pigments.\(^1\,^2\) For further details, see Product Description.
- GREENPUR Organic-based Color Pastes are generally used to color solvent-based polyurethane and vinyl-acrylic resins used in textile coatings and artificial leather production.\(^3\) For further details, see Product Uses.
- Exposure can occur either in facilities that manufacture GREENPUR Organic-based Color Pastes 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 in small amounts to color a variety of textiles and artificial leathers to which individuals could be exposed.\(^4\) For further details, see Exposure Potential.
- Direct eye and skin contact are essentially nonirritating to slightly irritating, while prolonged skin contact (very large amounts) with solvent in these products may cause dizziness or drowsiness. Inhalation of vapor or mist from the solvent in these products may cause minor irritation of the nose, throat, and lungs, and excessive exposure may lead to dizziness or drowsiness. These products have low toxicity if swallowed.\(^5\,^6\) For further details, see Health Information and request the relevant Safety Data Sheet from the Dow Customer Information Group.
- The solvent in GREENPUR Organic-based Color Pastes is readily biodegradable, has a low potential to accumulate in the food chain (bioconcentration potential is low), and is practically nontoxic to aquatic organisms on an acute basis. The main dye components are expected to slowly degrade through chemical and biological processes, have a low to moderate potential to

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accumulate in the food chain, and are expected to be moderately to highly toxic to aquatic organisms. For further details, see Environmental Information.

- GREENPUR™ Organic-based Color Pastes are considered stable under recommended storage and normal use conditions. Avoid contact with strong oxidizers. For further details, see Physical Hazard Information.

**Manufacture of Product**

- **Location** – GREENPUR™ products are formulated by approved contract manufacturers to meet stringent Dow specifications for quality and performance. The materials are produced in locations and quantities necessary to meet market demand.

- **Process** – GREENPUR Organic-based Color Pastes are produced using proprietary chemistries, processes, and blending techniques.

**Product Description**

GREENPUR™ Organic-based Color Pastes are solvent-based pastes containing organic dyes dispersed in dipropylene glycol monomethyl ether. These products include the pigments indicated below:

- GREENPUR 3012 Blu Oltremare Color Paste Pigment Blue 29
- GREENPUR 3013 Verde Color Paste Pigment Green 7
- GREENPUR 3032 Blu Color Paste Pigment Bleu 15
- GREENPUR 3049 Giallo Color Paste Pigment Yellow 139
- GREENPUR 3051 Bruno Color Paste Pigment Brown 25
- GREENPUR 3062 Blu Color Paste Pigment Bleu 15:6
- GREENPUR 3070 Rosso Color Paste Pigment Red 254
- GREENPUR 3072 Blu Color Paste Pigment Bleu 15:3
- GREENPUR 3200 Rosa Color Paste Pigment Red 122
- GREENPUR 3216 Verde Color Paste Mix of pigments
- GREENPUR 3300 Bordeaux Color Paste Pigment Violet 19
- GREENPUR 3310 Arancio Color Paste Mix of pigments
- GREENPUR 3502 Violetto Color Paste Pigment Violet 37

GREENPUR 3310 Arancio Color Paste also contains 1% to 2.5% fumed synthetic amorphous silica used as a thickener.

**Product Uses**

GREENPUR™ Organic-based Color Pastes are generally used to color solvent-based polyurethane and vinyl-acrylic resins used for textile coatings and artificial leather production. These products are also used to color high-solids, two-component polyurethanes.

**Exposure Potential**

GREENPUR™ Organic-based Color Pastes are used in the formulation of a variety 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 or formulate GREENPUR Organic-based Color Pastes or in the various industrial facilities that use these products. Those working with these products 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 prevent exposure. See Health Information.

- **Consumer exposure to products containing GREENPUR Organic-based Color Pastes** – Dow does not sell these products for direct consumer use, but they are used in small amounts to color a variety of textiles and artificial leathers to which individuals could be exposed. Exposure to the final products is not considered to present a risk. See Health Information.

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• **Environmental releases** – Engineering controls in facilities that manufacture or formulate GREENPUR™ Organic-based Color Pastes are designed to limit environmental exposure. 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, these products should be absorbed with inert materials such as sand. If released to the environment, the dyes are expected to bind to soils, suspended solids, and sediments and would be expected to be removed in wastewater-treatment facilities by adsorption to biosolids. The solvent is readily biodegradable and is expected to biodegrade in soil or water environments, including biological 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 product should be captured, collected, and reprocessed or disposed of according to applicable governmental requirements. Appropriate protective equipment must be worn when handling a spill of this material. Keep spills and cleaning runoff out of municipal sewers and open bodies of water. Eliminate all ignition sources and evacuate personnel to safe areas. Ventilate the area. Floor may be slippery; use care to avoid falling. Soak up material with inert, organic material such as sand, silica gel, acid binder, universal binder, or sawdust. Sweep up or vacuum up spillage, and collect in suitable container for disposal. Avoid breathing vapor. Spills on porous surfaces can contaminate groundwater. See Environmental, Health, and Physical Hazard Information.

• **In case of fire** – Deny any unnecessary entry into the area and consider the use of unmanned hose holders. Use water spray, carbon-dioxide or dry-chemical extinguishers, or foam to fight the fire. Vapors may travel to a source of ignition and flash back. Closed containers may rupture via pressure buildup when exposed to fire or extreme heat. During a fire, irritating or highly toxic gases and/or fumes may be generated during combustion or decomposition. Move containers promptly out of fire zone. If removal is impossible, cool containers with water spray. Remain upwind and avoid breathing smoke. Firefighters should wear self-contained breathing apparatus (SCBA). 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**¹³,¹⁴

Health information for GREENPUR™ Organic-based Color Pastes is summarized on the relevant Safety Data Sheets. An overview of health information for GREENPUR Organic-based Color Pastes appears below. It is important to note that health hazards associated with individual products may vary based on their formulation or intended use. These materials may also contain minor components or additives that have additional health hazards which are at levels that are not a risk to consumers. However, the Safety Data Sheet is the preferred source for specific health information.

**Eye contact** – Direct contact with the solvent is essentially nonirritating to the eyes. Contact with the other components may cause slight irritation.

**Skin contact** – Direct contact with the solvent is essentially nonirritating to skin. Contact with the other components may cause slight irritation and prolonged skin contact (very large amounts) with solvent in these products may cause dizziness or drowsiness.

**Inhalation** – Inhalation of vapor or mist from the solvent in these products may cause minor irritation of the nose, throat, and lungs, and excessive exposure may lead to dizziness or drowsiness.

**Ingestion** – These products have low toxicity if swallowed. Swallowing small amounts incidental to handling is not likely to cause injury; however, swallowing larger amounts may cause injury.

**Repeated exposure** – Excessive inhalation exposure from the solvent in the products may lead to dizziness or drowsiness.

**Other** – None of the components contained in the products are known to cause tumors or have an adverse effect on development of laboratory animals, however, the solvent in these products has elicited an adverse effect on reproduction of laboratory animals only at doses that produced significant toxicity to the parental animals.

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Environmental Information

Environmental information for GREENPUR™ Organic-based Color Pastes 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. An overview of environmental information for GREENPUR Organic-based Color Pastes appears below. However, the Safety Data Sheet is the preferred source for specific environmental information.

Dye components used in GREENPUR Organic-based Color Pastes have low water solubility and volatility. If released to water, they are expected to either float or bind to soils, suspended solids, or sediments. Most dye components are expected to degrade slowly in the environment in response to chemical and biological processes, including removal by wastewater-treatment facilities by adsorption to biosolids. These components have a low-to-moderate potential to bioconcentrate (accumulate in the food chain) and are expected to be moderately to highly toxic to aquatic organisms on an acute basis (LC50/EC50 values between 0.1 to 10 mg/L in the most sensitive species tested).

The solvent used in GREENPUR Organic-based Color Pastes has low volatility and is miscible with water. If released to the environment, it would tend to remain in water with minimal tendency to bind to soil or sediment. The solvent is readily biodegradable, which suggests that it will likely be removed in water and soil environments, including biological wastewater treatment facilities. The solvent has a low potential for accumulation in the food chain (bioconcentration potential is low) and is practically nontoxic to aquatic organisms on an acute basis (LC50/EC50 >100 mg/L in the most sensitive species tested).

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

Physical Hazard Information

GREENPUR™ Organic-based Color Pastes are considered stable under recommended storage and normal use conditions. Avoid contact with ignition sources.

Avoid contact with strong oxidizers.

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 GREENPUR™ Organic-based Color Pastes. 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 the relevant Safety Data Sheets or Technical Data Sheets from the Dow Customer Information Group (www.dow.com/assistance/dowcig.htm)
- Contact Us (www.dow.com/assistance/index.htm)
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For more business information about GREENPUR™ organic-based color pastes, contact the Dow Customer Information Group at www.dow.com/assistance/dowcig.htm.

References
5. GREENPUR 3072 Blu Safety Data Sheet, The Dow Chemical Company, November 22, 2008, Toxicological Information.
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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