Product Safety Assessment

ICOLOR W/WT Series Color Pastes


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Names
- ICOLOR W18 (P) White Color Paste
- ICOLOR WT81083 Bianco Color Paste
- ICOLOR W25 (P) Black Color Paste
- ICOLOR W61 (P) Rosso Color Paste
- ICOLOR W70 (P) Red Color Paste
- ICOLOR W32 (P) Blue Color Paste
- ICOLOR W13 (P) Green Color Paste
- ICOLOR W99 (P) Giallo Color Paste

Product Overview
- ICOLOR W/WT Series color pastes are water-based color pastes containing organic and inorganic pigments. For further details, see Product Description.
- ICOLOR W/WT Series color pastes are generally used to color water-based polyurethane dispersions, acrylic emulsions, and polyurethanes in solvent for coagulation used in textile coatings and artificial leather production. For further details, see Product Uses.
- Exposure to these products can occur either in facilities that manufacture ICOLOR W/WT Series 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 to color a variety of textiles and artificial leathers with which consumers may come into contact. For further details, see Exposure Potential.
- Direct eye and skin contact with liquid formulations may cause slight to severe irritation. Prolonged skin exposure may result in drying of the skin and dermatitis. Inhalation of high concentrations of vapor or mist from solvents may cause irritation of the nose, throat, and lungs, as well as dizziness, headache, nausea, vomiting, diarrhea, anesthetic effects, and drowsiness. Ingestion of paste formulations may cause headache, dizziness, gastrointestinal effects, respiratory effects, central nervous system effects, and even death. For further details, see Health Information.
- The solvents in ICOLOR W/WT Series color pastes are biodegradable, have a low to moderate potential for bioconcentration, and range from practically nontoxic to moderately toxic 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 accumulate in the food chain, and are expected to be moderately to highly toxic to aquatic organisms. For further details, see Environmental Information.
- ICOLOR W/WT Series color pastes are considered stable under recommended storage and normal use conditions. Contact with strong acids and oxidizing agents should be avoided. For further details, see Physical Hazard Information.

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Manufacture of Product

• **Location** – Rohm and Haas Company, a wholly owned subsidiary of The Dow Chemical Company, and its global affiliates manufacture acrylic and polyurethane emulsions and dispersions in various global locations.
• **Process** – ICOLOR W/WT Series color pastes are produced using proprietary chemistries, processes, and blending techniques.

Product Description

ICOLOR W/WT Series color pastes are water-based color pastes containing organic and inorganic dye components in a blend of diethylene glycol and ethoxylated alcohols. These products include the pigments indicated below:

| ICOLOR W18 (P) White Color Paste | Pigment White 6 |
| ICOLOR W25 (P) Black Color Paste | Pigment Black 7 |
| ICOLOR W61 (P) Rosso Color Paste | Pigment Red 101 |
| ICOLOR W70 (P) Red Color Paste | Pigment Red 254 |
| ICOLOR W32 (P) Blue Color Paste | Pigment Bleu 15 |
| ICOLOR W13 (P) Green Color Paste | Pigment Green 7 |
| ICOLOR W99 (P) Giallo Color Paste | Pigment Yellow 42 |

ICOLOR W/WT Series color pastes can be diluted in water and formulated as creamy pastes with a mild odor.

Product Uses

ICOLOR W/WT Series color pastes are generally used to color water-based polyurethane dispersions, acrylic emulsions, and polyurethane in solvent for coagulation used in textile coatings and artificial leather production. They are particularly designed for the Coagulation (or Wet) Process.

Exposure Potential

ICOLOR W/WT Series color pastes are used in the formulation of a variety of industrial and consumer products. Based on the uses for this product, the public could be exposed through:

• **Workplace exposure** – Exposure can occur either in facilities that manufacture or formulate ICOLOR W/WT Series color pastes or in the various industrial facilities that use these products. Personnel 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 limit exposure. See Health Information.

• **Consumer exposure to products containing ICOLOR W/WT Series 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 with which consumers may come into contact. Once introduced to the artificial leather or textiles, the color is dried and not considered to present a risk to consumers. See Health Information.

• **Environmental releases** – Engineering controls in facilities that manufacture or formulate ICOLOR W/WT Series color pastes should be 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. Respiratory protection is necessary for cleaning up spills and leaks. If released to the environment, most of the dye components are expected to bind to soils, suspended solids, and sediments and would be expected to be removed by wastewater-treatment facilities, while the solvents are likely 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 regulations. Certified respiratory protection equipment is recommended for emergency work. See Environmental, Health, and Physical Hazard Information.

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- **In case of fire** – Unnecessary entry into the area should be denied and the use of unmanned hose holders should be considered. Water spray or fog, carbon-dioxide or dry-chemical extinguishers, or foam should be used to fight the fire. Use of a direct water stream may spread the fire. Irritating and highly toxic gases and/or fumes may be generated during combustion or decomposition. Firefighters should wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing. Fire water should be kept out of waterways and sewers to minimize the potential for environmental damage. 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.

**Health Information**

Health information for ICOLOR W/WT Series color pastes 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 these products appears below. However, specific products 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 with product may cause slight to severe irritation.

**Skin contact** – Direct contact may cause slight to moderate irritation. Prolonged exposure may result in drying of the skin and dermatitis. Solvents absorbed through the skin may cause symptoms similar to those observed following inhalation exposure.

**Inhalation** – Inhalation of paste formulations may cause headache, dizziness, gastrointestinal effects, respiratory effects, central nervous system effects, and even death. Inhalation of high concentrations of vapor or mist from solvents may cause irritation of the nose, throat, and lungs, as well as dizziness, headache, nausea, vomiting, diarrhea, anesthetic effects, and drowsiness. Prolonged exposure could result in central nervous system effects and even death.

**Ingestion** – These products may be harmful if swallowed and may cause gastrointestinal irritation, including abdominal pain and nausea. Ingestion may also cause headache, dizziness, labored breathing, lack of coordination, light-headedness and, even death. Aspiration of some products into the lungs may cause lung damage, including inflammation and fluid in the lungs.

**Repeated exposure** – Studies in laboratory animals suggest that repeated exposure to diethylene glycol may induce kidney toxicity. Carbon black and titanium dioxide have, been shown to be carcinogenic to laboratory animals.

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

**Environmental Information**

Environmental information for ICOLOR W/WT Series color pastes 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 or intended use. An overview of environmental information appears below. These products may contain minor components or additives that have additional risks. The Safety Data Sheet is the preferred source for specific information.

Most of the dye components used in ICOLOR W/WT Series color pastes are insoluble in water and have low volatility. If released to water, the dye components are expected to float on the water or bind to soils, suspended solids, or sediments. The majority of the dye components are expected to degrade slowly in the environment through chemical and biological processes, including removal by wastewater-treatment facilities. These components have a low-to-moderate potential to bioconcentrate (accumulate in the food chain) and are anticipated to be moderately (LC₅₀/EC₅₀ between 1 and 10 mg/L) to highly toxic (LC₅₀/EC₅₀ between 0.1 and 1.0 mg/L) to aquatic organisms on an acute basis.

The solvents used in ICOLOR W/WT Series color pastes range have low volatility. If released to water, diethylene glycol will tend to remain in water while the ethoxylated alcohols will tend to bind to soils, suspended solids, and sediments. The solvents are expected to biodegrade in soil and water environments, including removal by wastewater-treatment facilities. They show a low to moderate potential
for bioconcentration, and the aquatic toxicity ranges from practically nontoxic (LC_{50}/EC_{50} >100 mg/L) to moderately toxic on an acute basis.

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

**Physical Hazard Information**\(^{14}\)

ICOLOR W/WT Series color pastes are considered stable under recommended storage and normal use conditions.

Contact with strong acids and oxidizing agents should be avoided.

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 ICOLOR W/WT Series 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](http://www.dow.com/assistance/dowcig.htm))
- Contact Us ([www.dow.com/assistance/index.htm](http://www.dow.com/assistance/index.htm))
- “Ethylene Glycol Category: (Diethylene Glycol, CAS No. 111-46-6),” Screening Information Data Set (SIDS) Initial Assessment Report for SIAM 18, Organisation for Economic Co-operation and Development (OECD), United Nations Environmental Programme (UNEP), Washington, D.C., April, 2004
- Human & Environmental Risk Assessment (HERA) on Ingredients of European Household Cleaning Products, Alcohol Ethoxylates, Version 2.0, September 2009

For more business information about ICOLOR W/WT Series azo-based color pastes, contact the Dow Customer Information Group at [www.dow.com/assistance/dowcig.htm](http://www.dow.com/assistance/dowcig.htm).
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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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