Product Safety Assessment

ADCOTE™ 61 Series Water-Based Acrylic Metallization Primer


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Names
• ADCOTE™ 61 Series Water-based Acrylic Metallization Primer
• ADCOTE 61JH64A Emulsion
• ADCOTE 61WG178 Primer

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Product Overview
• ADCOTE™ 61 Series Water-based Acrylic Metallization Primer is a solution acrylic copolymer that is supplied as an amber-colored liquid with a mild odor.¹² For further details, see Product Description.
• This product is designed for use in packaging applications as a print primer on metallized film, foil, and film.³ For further details, see Product Uses.
• Exposure can occur either in facilities that manufacture this product or in the various industrial or manufacturing facilities that use them. This product is not sold directly to consumers, but the cured product is used in packaging with which consumers may come into contact. This product may be used for food-contact applications in compliance with relevant governmental regulations and is not considered to represent a risk to consumers.⁴ For further details, see Exposure Potential.
• Eye contact with solvent in the uncured product may cause moderate to severe irritation and corneal burns. Skin contact with the solvent in this product may cause slight to moderate irritation, as well as defatting and drying of the skin, which can lead to irritation and dermatitis. Inhalation of solvent vapor or mist may cause irritation of the nose, throat, and lungs, as well as headache, nausea, vomiting, narcosis, and coma. Ingestion of the solvent in this product may cause adverse effects, even death. Uncured product may be harmful if swallowed.⁵ For further details, see Health Information.
• The polymer components in ADCOTE™ 61 Series Water-Based Acrylic Metallization Primer 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 or other aquatic organisms. The solvent used in the product is readily biodegradable, has a low tendency to accumulate in the food chain, and is practically non-toxic to the aquatic organisms on an acute basis.⁶ For further details, see Environmental Information.
ADCOTE™ 61 Series Water-based Acrylic Metallization Primer contains solvents that require strict adherence to recommended storage and handling procedures. This product is flammable, and should be kept away from sources of heat and ignition. For further details, see Physical Hazard Information.

Manufacture of Product

Location – ADCOTE™ 61 Series Water-based Acrylic Metallization Primer is manufactured in various global locations by Rohm and Haas Company, a wholly owned subsidiary of The Dow Chemical Company, and its global affiliates.


Product Description

ADCOTE™ 61 Series Water-based Acrylic Metallization Primer is a solution acrylic copolymer that is supplied as an amber-colored liquid with a mild odor. It contains copolymer resin, isopropyl alcohol (CAS No. 67-63-0), and water.

Product Uses

ADCOTE™ 61 Series Water-based Acrylic Metallization Primer is designed for use in packaging applications as a print primer on metallized film, foil, and film. This primer offers excellent adhesion and gloss, as well as good water resistance and abrasion resistance.

Exposure Potential

ADCOTE™ 61 Series Water-based Acrylic Metallization Primer is 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 ADCOTE 61 Series Water-based Acrylic Metallization Primer or in the various industrial or manufacturing facilities that use this product. It is produced, transported, and stored in closed systems until use. 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 prevent exposure. See Health Information.

• Consumer exposure to products containing ADCOTE 61 Series Water-based Acrylic Metallization Primer – Dow does not sell ADCOTE 61 Series Water-based Acrylic Metallization Primer for direct consumer use, but it is used in packaging applications with which consumers may come into contact. This product may be used for food-contact applications in compliance with relevant governmental regulations. In the dried and cured form, this product is not considered to present a risk to consumers.

• Environmental releases – If released, the polymer components will tend to float in water and would likely be removed in biological wastewater treatment plants by adsorption to biosolids. If released, the solvent will exhibit very low tendency to volatilize from water. In air, the solvent will degrade by reaction with photochemically produced hydroxyl radicals. Because the solvent is readily biodegradable, it is expected to be removed from water and soil environments, including biological wastewater treatment plants. In the event of a spill, the focus is on containing the spill to prevent contamination of soil, surface water, or groundwater. Respiratory protection is necessary for cleaning up spills and leaks. Spilled product should not be flushed into surface water or sanitary sewer systems. It should be collected using noncombustible absorbents (e.g., sand, earth, diatomaceous earth, vermiculite) and placed in containers for disposal according to applicable government regulations. 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. An approved respirator is recommended for emergency work. Unnecessary personnel should be evacuated from spill area. Ignition sources should be eliminated. Noncombustible absorbents such as sand, earth, diatomaceous earth, or vermiculite should be used to collect the spilled product. See Environmental, Health, and Physical Hazard Information.

• In case of fire – The solvents in this product are flammable. Carbon-dioxide, dry-chemical extinguishers, or foam should be used to fight the fire. Firefighters should wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing. Vapors are heavier than air and can travel to a source of ignition and flash back. Heated product can form flammable or explosive mixtures.
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explosive vapors with air. During a fire, harmful gases may be generated during combustion or decomposition. 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.

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Health Information
Health information for ADCOTE™ 61 Series Water-based Acrylic Metallization Primers is summarized on the relevant Safety Data Sheet. It is important to note that health risks associated with individual products may vary based on their formulation or intended use. These products may also contain minor components or additives that have additional health risks. An overview of health information for these products appears below. However, the Safety Data Sheet is the preferred source for specific health information.

Eye contact – Contact with the solvent in this product may cause moderate to severe eye irritation and corneal burns.

Skin contact – Contact with the solvent in this product may cause slight to moderate skin irritation, defatting, and drying of the skin, which can lead to irritation and dermatitis.

Inhalation – Inhalation of solvent vapor or mist may cause irritation of the nose, throat, and lungs, as well as headache, nausea, vomiting, narcosis, and coma.

Ingestion – Ingestion of the solvent in this product may cause abdominal pain, nausea, vomiting, diarrhea, headache, drowsiness, drunkenness, narcosis, unconsciousness, even death.

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

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Environmental Information
The high molecular weight polymer components in ADCOTE™ 61 Series Water-Based Acrylic Metallization Primer are insoluble in water and nonvolatile. If released, the polymers would float in water and eventually bind to soil, suspended solids, or sediment. Although the polymers are essentially non-biodegradable, they would 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. The polymers are not expected to accumulate in the food chain due to their high molecular weight and are not expected to be toxic to fish or other aquatic organisms on an acute basis.

The solvent in ADCOTE 61 Series Water-based Acrylic Metallization Primer has moderate volatility and is miscible in water. If released to the environment, the solvent would have a very low tendency to evaporate from water with minimal tendency to bind to soil and sediments. The solvent is unlikely to persist in the environment. In the atmosphere, it will degrade within days by reaction with photochemically produced hydroxyl radicals. The solvent is also readily biodegradable, which suggests that it would be removed from water and soil environments, including biological wastewater treatment facilities. The solvent is not expected to accumulate in the food chain and it is practically nontoxic (EC50/LC50 >100 mg/L) to aquatic organisms on an acute basis.

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

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Physical Hazard Information
ADCOTE™ 61 Series Water-based Acrylic Metallization Primer contains solvent that requires strict adherence to recommended storage, handling, and fire-fighting procedures. ADCOTE 61 Series Water-based Acrylic Metallization Primer is considered stable under recommended storage and use conditions, but it is flammable. Containers should be kept tightly closed in a well-ventilated area away from sources of heat and ignition. Containers may be hazardous when empty. Sufficient air ventilation should be provided when handling and suitable respiratory equipment should be worn.
Vapors are heavier than air and may travel to a source of ignition and flash back. Heated material can form flammable or explosive vapors with air. Closed containers may rupture via pressure build-up when exposed to fire or extreme heat.

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 ADCOTE™ 61 Series Water-based Acrylic Metallization Primer. 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 and Technical Data Sheets from the Dow Customer Information Group (www.dow.com/assistance/dowcig.htm)
- Contact Us (www.dow.com/assistance/dowcig.htm)

For more information about ADCOTE 61 Series Water-based Acrylic Metallization Primer, visit the Dow Packaging Products website at www.dow.com/products/market/packaging/product-line/adcote/.

References
4 ADCOTE™ 61WG178 Primer (Technical Data Sheet), Packaging and Building Materials, Rohm and Haas Company, January 2008, pages 1 and 2.
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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