Product Safety Assessment

BETACLEAN™ U-424 Urethane Adhesive Cleaner

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Names
- BETACLEAN™ U-424 Urethane Adhesive Cleaner
- BETACLEAN U-424 Cleaner

Product Overview
- BETACLEAN™ U-424 Urethane Adhesive Cleaner is a specialty cleaner sold by Dow Automotive Systems, a business unit of The Dow Chemical Company. It is a clear, colorless liquid with a fruity odor, and includes dipropylene glycol monomethyl ether and 1-butoxy-2-propanol as major components. For further details, see Product Description.
- BETACLEAN U-424 Cleaner is used in the automotive repair industry for vehicle surface preparation and for the removal of uncured urethane adhesive. For further details, see Product Uses.
- Occupational exposure may occur at facilities that formulate or package BETACLEAN™ U-424 or at aftermarket repair shops that use this product. Risk of exposure is minimized through engineering controls and the use of personal protective equipment. BETACLEAN U-424 Cleaner is a commercial product not sold for at home use. For further details, see Exposure Potential.
- Eye contact with this cleaner may cause moderate irritation or corneal injury. Prolonged or repeated skin contact may cause irritation with local redness, a burn, and dizziness or drowsiness. Prolonged, excessive inhalation of this material may cause adverse effects. For further details, see Health Information.
- The main components in BETACLEAN U-424 Cleaner are readily biodegradable, unlikely to accumulate in the food chain and are practically nontoxic to fish and other aquatic organisms. For further details, see Environmental Information.
- BETACLEAN U-424 Cleaner is combustible. Its vapors are heavier than air and may travel long distances and accumulate in low-lying areas. Ignition or flashback may occur. Store this material away from ignition sources. BETACLEAN U-424 Cleaner is stable under recommended storage and use conditions. Keep this product away from strong oxidizers. For further details, see Physical Hazard Information.
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Manufacture of Product

- Location – BETACLEAN™ U-424 Cleaner is manufactured exclusively in the U.S.

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Product Description

BETACLEAN™ U-424 Urethane Adhesive Cleaner is a specialty cleaner sold by Dow Automotive Systems. It is a clear liquid with a fruity aroma. BETACLEAN U-424 Cleaner is designed for use with BETAPRIME™ Primers and BETASEAL™ Urethane Adhesives.

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Product Uses

BETACLEAN™ U-424 Urethane Adhesive Cleaner is an industrial product used in the automobile aftermarket industry during windshield (windscreen) repair or replacement. It is also used during the sealing and bonding process of vehicle body panel repairs. BETACLEAN U-424 Cleaner is used to remove excess uncured urethane adhesive.

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Exposure Potential

BETACLEAN™ U-424 Urethane Adhesive Cleaner is used in the automobile aftermarket (repair) industry. Based on the uses for this product, the public could be exposed through:

- **Workplace exposure** – Exposure can occur either in a facility that formulates BETACLEAN Cleaner or at aftermarket repair shops that use this cleaner as part of the BETASEAL™ Automotive Sealant System. Those working with BETACLEAN™ U-424 Cleaner in manufacturing operations could be exposed during maintenance, sampling, testing, or other procedures. Exposure is also possible while using this product for vehicle surface preparation and clean-up. Each facility should have a thorough training program for employees and appropriate work processes, ventilation, and safety equipment in place to limit unnecessary exposure. See Health Information.

- **Consumer exposure to BETACLEAN U-424 Urethane Adhesive Cleaner** – This product is for professional use only. Consumer exposure is not likely. See Health Information.

- **Environmental releases** – The main components in BETACLEAN™ U-424 Cleaner, dipropylene glycol monomethyl ether and 1-butoxy-2-propanol, may evaporate from products containing them. These water soluble components, when introduced, will have a tendency to remain in water. Because they are readily biodegradable, they will be removed from water and soil environments, including sewage treatment plants. In the event of a spill, the focus is on containing the spill to prevent contamination of soil and surface or ground water. See Environmental, Health and Physical Hazard Information.

- **Large release** – Industrial spills or releases are infrequent and generally contained. If a large spill does occur, evacuate personnel upwind of the spill. This product is combustible. Eliminate all sources of ignition to avoid fire or explosion. Positive pressure, self-contained breathing apparatus (SCBA) with an approved full-face mask is recommended for emergency work. Use non-sparking tools in cleanup operations; ground and bond all containers and handling equipment. Absorb spills with cat litter, sand, or sawdust. See Environmental, Health and Physical Hazard Information.

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In case of fire – Keep people away. Isolate the fire and deny unnecessary entry. Product vapors are heavier than air and may travel a long distance and accumulate in low-lying areas. Ignition or flashback could occur. Use a water fog or fine spray, dry-chemical or carbon-dioxide extinguishers, or foam to fight fire. A direct water stream may spread the fire. Firefighters should wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing. Follow emergency procedures carefully. See Environmental, Health and Physical Hazard Information.

For more information, see the relevant Safety Data Sheet.

Health Information

Eye contact – Eye contact with this product may cause moderate irritation or moderate corneal injury. Contact with product vapor or mist may cause eye irritation experienced as mild discomfort and redness.

Skin contact – Prolonged or repeated skin contact with this product may cause irritation with local redness, even a chemical burn. Prolonged skin contact with very large amounts may cause dizziness or drowsiness.

Inhalation – Prolonged excessive inhalation may cause adverse effects. Mist may cause irritation of the nose and throat. Symptoms of excessive exposure may be anesthetic or narcotic effects or dizziness or drowsiness.

Ingestion – This material has low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury. However, swallowing larger amounts may cause injury. Swallowing may cause gastrointestinal irritation, vomiting, and diarrhea.

Repeated exposure – In animal testing, repeated, excessive exposures to components of this formulation have adversely affected the blood and kidneys. Repeated ingestion of salicylic acid, a minor component of the product formulation, has caused gastrointestinal irritation, ringing in the ears, nausea, vomiting, and metabolic disturbances.

Other – Components of this formulation have caused birth defects in laboratory animals only at doses toxic to the mother.

For more information, see the relevant Safety Data Sheet.

Environmental Information

The main components in BETACLEAN™ U-424 Urethane Adhesive Cleaner, dipropylene glycol monomethyl ether and 1-butoxy-2-propanol, are moderately volatile, and may evaporate from products containing them. These water soluble components, when introduced, will have a tendency to remain in water with a minimal tendency to bind to soil or sediment.

The main components are unlikely to persist in the environment. The compounds are readily biodegradable, which suggests the chemicals will likely be removed from water and soil environments, including biological wastewater treatment plants.

The main components have a low bioconcentration potential (not likely to accumulate in the food chain) and are practically non-toxic to toxic to fish and other aquatic organisms on an acute basis.

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The OECD SIDS Initial Assessment Profiles concluded that both compounds were considered of low priority for further work.

For more information, see the relevant Safety Data Sheet.

Physical Hazard Information

BETACLEAN™ U-424 Urethane Adhesive Cleaner is stable under recommended storage and use conditions. This product is combustible. Its vapors are heavier than air and may travel long distances and accumulate in low-lying areas. Ignition or flashback may occur. Minimize sources of ignition such as static build-up, heat, spark, or flame. Store this cleaner indoors in a cool, dry place out of direct sunlight. Keep this product away from strong oxidizers.

For more information, see the relevant Safety Data Sheet.

Regulatory Information

Regulations may exist that govern the manufacture, sale, transportation, use, and/or disposal of BETACLEAN™ U-424 Urethane Adhesive Cleaner. These regulations may vary by city, state, country, or geographic region. Information may be found by consulting the relevant Safety Data Sheet, Technical Data Sheet, or Contact Us.

Additional Information

- Safety Data Sheet (http://www.dow.com/webapps/msds/msdssearch.aspx)
- Contact Us (http://automotive.dow.com/contact/)
- BETACLEAN™ U-424 Cleaner webpage (http://automotive.dow.com/products/betaclean/u424.htm)
- Dow Automotive Accessory Products, Dow Automotive Systems, (http://www.dowautomotive.com/contact/)


References

1 BETACLEAN™ U-424 Urethane Adhesive Cleaner Safety Data Sheet, Dow Automotive Systems.
2 BETACLEAN U-424 Cleaner webpage (http://automotive.dow.com/products/betaclean/u424.htm)
3 Dow Automotive Accessory Products, Dow Automotive Systems.
4 BETACLEAN 3300 Safety Data Sheet, The Dow Chemical Company.
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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