Product Safety Assessment

UCON™ Textile Lubricant LS


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Names
- UCON™ Textile Lubricant LS

Product Overview
- UCON™ Textile Lubricant LS is a water-soluble, high-performance gear lubricant. Because it is water soluble, this lubricant is easily removed from fabric by washing with water. UCON Textile Lubricant LS is a colorless-to-yellow liquid with a mild odor. For further details, see Product Description.
- UCON Textile Lubricant LS is a specialty product designed for lubrication in the misting attachments of certain textile-weaving machines. For further details, see Product Uses.
- UCON Textile Lubricant LS is intended for industrial use. Worker exposure is possible during manufacture or during product transport or use. Engineering controls and personal protective equipment reduce exposure risk. Consumers are not likely to contact this product. For further details, see Exposure Potential.
- Eye contact may cause slight irritation with slight corneal injury. Brief skin contact is essentially nonirritating. This product contains a minor component that may cause an allergic skin reaction through skin contact. At room temperature, exposure to vapor is minimal. For further details, see Health Information.
- The components of UCON Textile Lubricant LS are biodegradable in the environment, and are not likely to accumulate in the food chain (low bioconcentration potential). The dominant component (97%) is practically non-toxic, while a minor component (present at 2%) is toxic, to fish and other aquatic species on an acute basis. For further details, see Environmental Information.
- UCON Textile Lubricant LS is thermally stable at recommended storage and use temperatures, but can decompose at elevated temperatures. Avoid contact with strong acids, strong bases, and strong oxidizers. For further details, see Physical Hazard Information.
- UCON Textile Lubricant LS contains an anti-oxidant. For information related to the antioxidant see the Product Safety Assessment for Bisphenol A.
Manufacture of Product

- **Capacity** – The Dow Chemical Company manufactures UCON™ Textile Lubricant LS at facilities in South Charleston, West Virginia, USA.
- **Process** – UCON Textile Lubricant LS is formulated using proprietary materials and technology.

Product Description

UCON™ Textile Lubricant LS is an extreme-pressure and anti-wear gear lubricant for the textile industry. This product is based on polyalkylene glycol monobutyl ether, along with additives that function as corrosion and oxidation inhibitors. UCON Textile Lubricant LS is water soluble, allowing for soap and water removal from fabric during the scouring stage of fabric production.

Product Uses

UCON™ Textile Lubricant LS is specially formulated for use in Sulzer brand projectile weaving machines; automated large-scale looms for weaving fabric, as a gear lubricant for the misting attachment.

Exposure Potential

UCON™ Textile Lubricant LS is used in certain weaving machines. Based on the uses for this product, individuals could be exposed through:

- **Workplace exposure** – Exposure can occur in facilities that manufacture UCON fluids or during transport or use. Those working with UCON lubricants in manufacturing operations could be exposed during maintenance, sampling, testing, or other procedures. Workers using projectile weaving machines could also be exposed. Each manufacturing or weaving facility should have a thorough training program for employees and appropriate work processes and safety equipment in place to limit exposure. See Health Information.

- **Consumer exposure to UCON Textile Lubricant LS** – UCON Textile Lubricant LS is a commercial product intended for industrial use. Although this product may contact fabric, this product would be removed from textiles during the scouring stage of fabric manufacture, prior to the manufacture of finished goods. So consumer exposure is not likely. See Health Information.

- **Environmental releases** – Because UCON Textile Lubricant LS is designed for use in specific weaving machines and associated textile processing, releases to the environment are strictly controlled, and any wastewaters associated with textile processing should be treated in appropriate wastewater treatment facilities before discharge to the environment. The components of this product are expected to be ultimately biodegraded in water or soil, and to be efficiently removed in biological wastewater treatment facilities. The main component is practically non-toxic, while a minor component is toxic, to fish and other aquatic organisms on an acute basis. See Environmental, Health, and Physical Hazard Information.

- **Large release** – UCON Textile Lubricant LS could be released into the environment as a result of spill during transport or handling. In the event of a spill, the focus is on containing the spill to prevent further contamination of soil and surface or ground water. Industrial spills or releases are infrequent and generally contained. The components of this product are non-volatile and highly soluble in water, and as such, have the potential to migrate with associated water in a water body, soil, or sediment. If a large spill does occur, the focus is on immediate containment to prevent spread of contamination to surrounding soil and surface or...
ground water. Ventilate the area. Collect spilled product in suitable and properly labeled containers. Use appropriate safety equipment. See Environmental, Health, and Physical Hazard Information.

- **In case of fire** – Keep people away. Isolate the fire and deny unnecessary entry. Use water fog or fine spray, dry-chemical or carbon-dioxide extinguishers, or foam to fight the fire. Alcohol-resistant foams are preferred. A direct water stream may spread the fire. Firefighters should wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing. Fight fires from a protected location or safe distance. Follow emergency procedures carefully. See Environmental, Health, and Physical Hazard Information.

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

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**Health Information**

**Eye contact** – Contact may cause slight eye irritation with slight corneal injury.

**Skin contact** – Brief skin contact is essentially nonirritating. Prolonged skin contact is unlikely to result in absorption of harmful amounts. This product contains a minor component that may cause an allergic skin reaction through skin contact.

**Inhalation** – At room temperature, exposure to vapor is minimal due to low volatility.

**Ingestion** – This product has very low toxicity if swallowed. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. However, swallowing larger amounts may cause injury.

**Repeated exposure** – Repeated inhalation of product mist may cause irritation of the upper respiratory tract (nose and throat) and lungs.

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

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**Environmental Information**

The major component of UCON™ Textile Lubricant LS, polyalkylene glycol monobutyl ether, is non-volatile (will not evaporate quickly) and is highly soluble in water. If introduced to water, this component could be transported with surface or ground water in which it is dissolved, wherein it will be ultimately biodegraded. This component has been shown to be practically non-toxic, and is not expected to accumulate in aquatic life, because of its high molecular weight and high water solubility.

This product also contains Bisphenol A as a minor component, which is also non-volatile, moderately soluble in water, and is readily biodegradable. Whereas this minor component is toxic to aquatic life, it is expected to be efficiently destroyed in biological wastewater treatment facilities associated with the textile processing industry. This component has also been shown to have low potential for accumulation in aquatic organisms. However, due to concern for suspected effects on endocrine function of organisms, the substance is of regulatory concern in some regions of the world.

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

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Physical Hazard Information¹¹
UCON™ Textile Lubricant LS is thermally stable under recommended storage and use conditions, but can decompose at elevated temperatures. Generation of gas during decomposition can cause pressure build-up in closed systems.

Avoid contact with strong acids, strong bases, and strong oxidizers.

For more information, request the 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 UCON™ Textile Lubricant LS and its components. 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 (www.dow.com/assistance/dowcig.htm)
- Contact Us (www.dow.com/ucon/contact/index.htm)

For more business information about UCON textile lubricant LS, visit the website for UCON Fluids and Lubricants at www.dow.com/ucon/.

References

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