Product Safety Assessment

UCON™ Hydraulic Fluid EHC-846


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Names
• UCON™ Hydraulic Fluid EHC-84
• Polypropylene glycol

Product Overview
• UCON™ Hydraulic Fluid EHC-846 is a yellow to orange liquid with a mild odor. For further details, see Product Description.
• UCON Hydraulic Fluid EHC-846 is used in mobile and stationary systems for aluminum, steel, die-casting, mining, and industrial applications. For further details, see Product Uses.
• UCON Hydraulic Fluid EHC-846 is not sold for direct consumer use. Worker exposure to UCON Hydraulic Fluid EHC-846 is possible during manufacture, transport, or use. Exposure is minimized by engineering controls and the use of personal protective equipment. For further details, see Exposure Potential.
• Eye contact may cause slight temporary eye irritation. Corneal injury is unlikely. Prolonged skin contact may cause slight skin irritation with local redness. At room temperature, exposure to vapor is minimal due to low volatility. This product has very low toxicity if swallowed. For further details, see Health Information and request the relevant Safety Data Sheet from the Dow Customer Information Group.
• UCON Hydraulic Fluid EHC-846 is readily biodegradable and is not expected to accumulate in the food chain. This product is slightly toxic to aquatic organisms on an acute basis. For further details, see Environmental Information.
• UCON Hydraulic Fluid EHC-846 is stable under recommended storage and normal use conditions. Exposure to elevated temperatures can cause this product to decompose, creating pressure in closed systems. Avoid contact with strong acids, strong bases, and strong oxidizers. For further details, see Physical Hazard Information.

Manufacture of Product
• Locations – The Dow Chemical Company manufactures UCON™ Hydraulic Fluid EHC-846 at facilities located in the USA.
• Process – UCON Hydraulic Fluid EHC-846 is a formulated product produced using proprietary materials and technology.
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Product Description
UCON™ Hydraulic Fluid EHC-846 is a proprietary blend of polypropylene glycols and performance additives, supplied as a yellow to orange liquid with a mild odor.

Product Uses
UCON™ Hydraulic Fluid EHC-846 is designed for mobile and stationary systems, including aluminum, steel, die casting, mining, and industrial applications.

Exposure Potential
UCON™ Hydraulic Fluid EHC-846 is used in industrial applications. Based on the uses for this product, individuals could be exposed through:

- **Workplace exposure** – Exposure can occur either in facilities that manufacture UCON Hydraulic Fluid EHC-846 or in the various industrial or manufacturing facilities that use this product. It is produced, distributed, stored, and consumed in closed systems. Those working with UCON Hydraulic Fluid EHC-846 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 UCON Hydraulic Fluid EHC-846** – UCON Hydraulic Fluid EHC-846 is sold only for industrial use, so consumer exposure is unlikely. See Health Information.

- **Environmental releases** – In the event of a spill, the focus is on containing the spill to prevent contamination of soil, surface water, or groundwater. Since the major components of UCON Hydraulic Fluid EHC-846 are readily biodegradable according to OECD guidelines, this product is expected to be removed from water and soil environments, including biological wastewater-treatment facilities. This product is slightly toxic to aquatic organisms on an acute basis. 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 disposed of according to applicable governmental requirements. Use appropriate safety equipment. Prevent from entering into soil, ditches, sewers, waterways, and/or groundwater. Contain spilled product if possible, and collect in suitable and properly labeled containers. See Environmental, Health, and Physical Hazard Information.

- **In case of fire** – Keep people away. Isolate the fire and deny unnecessary entry. Use water spray to cool fire-exposed containers and the fire-affected zone until the fire is out and danger of reignition has passed. Fight the fire from a protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use a direct water stream, which may spread the fire. Move containers away from the fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Firefighters should wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight the fire from a protected location or safe distance. Follow emergency procedures outlined in the Safety Data Sheet carefully. See Environmental, Health, and Physical Hazard Information.

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

Health Information

**Eye contact** – Contact may cause slight temporary eye irritation. Corneal injury is unlikely.

**Skin contact** – Prolonged contact may cause slight skin irritation with local redness. Prolonged skin contact is unlikely to result in absorption of harmful amounts.

**Inhalation** – At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous.

**Ingestion** – This product has low toxicity if swallowed. Swallowing small amounts incidentally as a result of normal handling operations is not likely to cause injury.

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**Other** – Based on physical properties, this product is not likely to be an aspiration hazard.

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

**Environmental Information**

UCON™ Hydraulic Fluid EHC-846 has limited solubility in water, but is not expected to persist in the environment. This product is biodegradable according to OECD guidelines. Therefore, it is expected to be rapidly degradable in water and soil environments, including biological wastewater-treatment facilities. This product is not expected to accumulate in the food chain, and is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L for the most sensitive species tested). This product is not considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

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

**Physical Hazard Information**

UCON™ Hydraulic Fluid EHC-846 is thermally stable under recommended storage and normal use conditions. Exposure to elevated temperatures can cause this product to decompose. Generation of gas during decomposition can cause pressure in closed systems. Decomposition products depend on temperature, air supply, and the presence of other materials. Decomposition products can include, and are not limited to: aldehydes, alcohols, ethers, hydrocarbons, ketones, organic acids, and polymer fragments. Avoid contact with strong acids, strong bases, and 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 UCON™ Hydraulic Fluid EHC-846. 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 Sheet from the **Dow Customer Information Group** ([www.dow.com/assistance/dowcig.htm](http://www.dow.com/assistance/dowcig.htm))
- Contact Us ([www.dow.com/ucon/contact/index.htm](http://www.dow.com/ucon/contact/index.htm))

For more business information about UCON™ Hydraulic Fluid EHC-846, visit the **Dow UCON Fluids and Lubricants** website at [www.dow.com/ucon/](http://www.dow.com/ucon/).

**References**

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