Product Safety Assessment

UCARSOL™ Antifoams

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Product Overview

• UCARSOL™ antifoams are colorless to yellow liquids with a mild odor.\textsuperscript{1,2} For further details, see Product Description.
• UCARSOL antifoams provide foam control in gas-treating systems in refineries and natural-gas processing facilities.\textsuperscript{3,4} For further details, see Product Uses.
• Because UCARSOL antifoams are sold only for industrial use, consumer contact is unlikely. Workplace exposure is possible.\textsuperscript{1,2} For further details, see Exposure Potential.
• Eye contact with UCARSOL antifoams may cause slight irritation. Prolonged skin contact may cause slight irritation and local redness, but is not likely to result in absorption of harmful amounts. At room temperature, exposure to vapor from UCARSOL antifoams is minimal due to its low volatility. No adverse health effects are anticipated from a single inhalation of vapor.\textsuperscript{1,2} For further details, see Health Information.
• UCARSOL antifoams are biodegradable, unlikely to accumulate in the food chain, and practically nontoxic to fish and aquatic organisms.\textsuperscript{1,2} For further details, see Environmental Information.
• UCARSOL antifoams are stable under recommended storage conditions. These materials are incompatible with strong acids, strong bases, and strong oxidizers.\textsuperscript{1,2} For further details, see Physical Hazard Information.

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Manufacture of Product

• Locations – Dow produces the major component of UCARSOL™ antifoams at manufacturing facilities in the United States.
• Manufacture – UCARSOL antifoams are proprietary blends of specialty synthetic polyglycols with other components.

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Product Description\textsuperscript{1,2}

UCARSOL™ antifoams are colorless to yellow liquids with a mild odor. They are slightly soluble in water.
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Product Uses

In gas-treating systems, foaming can result from the presence of contaminants such as liquid hydrocarbons, particulates, or surfactants. UCARSOL™ antifoams provide control of these foams in refineries and natural-gas processing facilities.

Exposure Potential

UCARSOL™ antifoams are used in the production of industrial products. Based on the uses for these products, the public could be exposed through:

- **Workplace exposure** – Exposure can occur either in a manufacturing facility or in the various industrial or manufacturing facilities that use UCARSOL antifoams. Those working with these materials in manufacturing operations could be exposed during maintenance, sampling, testing, or other procedures. All facilities involved in the manufacture or use of these products should have a thorough training program for employees and appropriate work processes and safety equipment in place to limit unnecessary exposure. See Health Information.

- **Consumer exposure to products containing UCARSOL antifoams** – Dow does not sell UCARSOL™ antifoams for direct consumer use. Consumer contact is unlikely. See Health Information.

- **Environmental releases** – If UCARSOL antifoams are introduced to water, the materials will tend to remain dissolved because they are moderately soluble in water. The components of UCARSOL™ antifoams are biodegradable and will be removed by sewage-treatment plants. See Environmental Information.

- **Large release** – Industrial spills or releases are infrequent and generally contained. If a large spill does occur, contain the spilled material if possible. Pump material into suitable and properly labeled containers using appropriate safety equipment. See Environmental, Health, and Physical Hazard Information.

- **In case of fire** – Keep people away and deny unnecessary entry. Firefighters should wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing or fight the fire from a safe distance or protected location. Use water fog or fine spray, carbon-dioxide or dry-chemical extinguishers, or foam to fight the fire. Alcohol-resistant foams are preferred. Do not use a direct water stream; it may spread the fire. Follow all emergency procedures 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** – Eye contact may cause slight irritation. Corneal injury is unlikely. Effects are likely to heal readily.

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**Skin contact** – Brief skin contact is essentially nonirritating. Prolonged skin contact may cause slight irritation and local redness, but is not likely to result in absorption of harmful amounts. No allergic reactions would be expected.

**Inhalation** – At room temperature, exposure to vapor is minimal due to the low volatility of these materials. No adverse health effects are anticipated from a single inhalation of vapor.

**Ingestion** – These materials have very low toxicity if swallowed. Swallowing small amounts incidental to normal handling is unlikely to cause injury.

**Other** – Based on available data, repeated exposures to small amounts are not anticipated to cause significant adverse effects.

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

**Environmental Information**¹,²

UCARSOL™ antifoams have very low volatility. Because they are moderately soluble in water, once introduced, these materials have a tendency to remain in water. They have minimal tendency to bind to soil or sediment.

UCARSOL antifoams are unlikely to persist in the environment. These products slowly biodegrade which suggests this family of materials will be completely removed from water and soil environments including biological wastewater-treatment plants.

UCARSOL antifoams are not likely to accumulate in the food chain (bioconcentration potential is low) and are not classified as dangerous to fish and other aquatic organisms on an acute basis.

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

**Physical Hazard Information**¹,²

UCARSOL™ antifoams are stable under recommended storage conditions. Store these materials in carbon steel, stainless steel, polypropylene, polyethylene-lined, or Teflon containers.

UCARSOL antifoams can decompose at elevated temperatures. Generation of gas during decomposition can cause pressure build-up in closed systems. Decomposition products depend on temperature, air supply, and the presence of other materials, but may include aldehydes, ketones, organic acids, and other compounds.

UCARSOL antifoams are incompatible with strong acids, strong bases, and strong oxidizers and contact should be avoided.

During a fire, smoke may contain the original material in addition to toxic or irritating combustion products, which may include carbon monoxide and carbon dioxide. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Spills of these materials on hot, fibrous insulation may reduce the autoignition temperatures, increasing the potential for spontaneous combustion.

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 UCARSOL™ antifoams. 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

- Safety Data Sheet (http://www.dow.com/webapps/msds/msdssearch.aspx)
- Contact Us (http://oilandgas.dow.com/contact/)
- Dow Oil and Gas: Seeing Beyond Chemicals to the Chemistry of Possibilities, The Dow Chemical Company, Form No. 812-00001-908 AMS, September 2008
- UCARSOL™ GT 10 Antifoam, Product Information, The Dow Chemical Company, Form No. 170-01426-0704, July 2004 (request by contacting the Dow Customer Information Group)
- UCARSOL GT 8715 Antifoam for Gas Treating, Product Information, The Dow Chemical Company, Form No. 170-01434-0704, July 2004 (request by contacting the Dow Customer Information Group)
- UCARSOL GT 10 Antifoam, Technical Information, The Dow Chemical Company, Form No. 170-01399-0704, July 2004 (request by contacting the Dow Customer Information Group)

For more business information about UCARSOL antifoams, visit the Dow Oil and Gas web site at www.dowoilandgas.com.

References

1 UCARSOL™ GT-10 Antifoam Material Safety Data Sheet, The Dow Chemical Company
2 UCARSOL GT-8715 Antifoam Material Safety Data Sheet, The Dow Chemical Company
5 Dow Oil and Gas web site at http://www.dowoilandgas.com.
6 Estimates by The Dow Chemical Company.
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