Product Safety Assessment

SYNALOX™ 100-T140 Lubricant

Product Safety Assessment documents are available at www.dow.com/productsafety/finder/.

Select a Topic:
Names
Product Overview
Manufacture of Product
Product Description
Product Uses
Exposure Potential
Health Information
Environmental Information
Physical Hazard Information
Regulatory Information
Additional Information
References

Names
• SYNALOX™ 100-T140 Lubricant
• Polyalkylene glycol
• CAS No. 52624-57-4
• Polyglycol

Product Overview
• SYNALOX™ 100-T140 Lubricant is a synthetic lubricant based on polyalkylene glycol (PAG) initiated with trimethylolpropane. For further details, see Product Description.
• SYNALOX 100-T140 Lubricant is designed for use in calendering machines, compressors, gears, and bearings. It can also be used as a chemical intermediate or plasticizer or to formulate mold-release agents and greases. For further details, see Product Uses.
• Those working with SYNALOX 100-T140 Lubricant in manufacturing operations or as a lubricant could be exposed during maintenance, sampling, testing, or other procedures. Consumer contact is unlikely. For further details, see Exposure Potential.
• Eye contact may cause slight temporary irritation. Brief skin contact is essentially nonirritating. Prolonged skin contact may cause slight irritation with local redness. Even prolonged skin contact is unlikely to result in absorption of harmful amounts. Exposure to vapor is minimal due to low volatility. Very low toxicity if swallowed. For further details, see Health Information.
• SYNALOX 100-T140 Lubricant is non-volatile, and is poorly soluble in water. Any emissions will have limited distribution, and low impact, in the environment. The substance is expected to be biodegrade slowly and completely in the environment, and is practically non-toxic to aquatic life. For further details, see Environmental Information.
• SYNALOX 100-T140 Lubricant is stable at normal storage and use temperatures; however, elevated temperatures can cause this product to decompose. For further details, see Physical Hazard Information.

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Manufacture of Product

- **Locations** – SYNALOX™ 100-T140 Lubricant is manufactured at facilities in Terneuzen, The Netherlands by a global affiliate of The Dow Chemical Company.

- **Process** – SYNALOX 100-T140 is formed by reacting trimethylolpropane with propylene oxide.

**Product Description**

SYNALOX™ 100-T140 Lubricant is a synthetic lubricant. It is a colorless to yellow, water-insoluble liquid with a mild odor. SYNALOX products are marketed primarily in Europe.

**Product Uses**

SYNALOX™ 100-T140 Lubricant is designed for use as a high-performance lubricant featuring high viscosity index, low pour point, clean burn properties, and low toxicity and environmental impact. It can be used in a wide variety of lubrication applications, such as:

- Calendering machines
- Compressors
- Gears
- Bearings

It can also be used as a chemical intermediate or plasticizer and in the formulation of mold-release agents and greases.

**Exposure Potential**

SYNALOX™ 100-T140 Lubricant is used in industrial and commercial facilities. Based on the uses for this product, the public could be exposed through:

- **Workplace exposure** – Exposure can occur either in a facility that formulates SYNALOX 100-T140 Lubricant or in the various facilities that use this product. It is produced, distributed, stored, and used in closed systems. Those working with SYNALOX 100-T140 Lubricant in manufacturing operations or as a lubricant 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 SYNALOX 100-T140 Lubricant** – Dow does not sell this product for direct consumer use. Consumer contact is unlikely. See Health Information.

- **Environmental releases** – Small quantities of SYNALOX 100-T140 Lubricant could be released into the environment during a spill or equipment failure. In the event of a spill, the focus is on containing the spill to prevent contamination of soil and surface or ground water. Because it is non-volatile and poorly soluble in water, any spilled product would tend to remain associated with the environment to which it is spilled, and would adsorb to soil and sediment particles. This product is expected to slowly biodegrade in soil and water, and efficient removal is expected during treatment in biological wastewater-treatment facilities. This product would not be expected to bioconcentrate (accumulate in the food chain) and is considered practically non-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 material should be captured, collected, and reprocessed or disposed of according to applicable governmental requirements. See [Environmental, Health, and Physical Hazard Information](#).

• **In case of fire** – Isolate the fire and deny any unnecessary entry into the area. Use water spray or fog, carbon-dioxide or dry-chemical extinguishers, or foam to fight the fire. Alcohol-resistant foams are preferred. Use of a direct water stream may spread the fire. Immediately withdraw all personnel from the area in case of rising sounds from venting safety devices or discoloration of the container. 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, request the Safety Data Sheet from the [Dow Customer Information Group](#).

### Health Information

10

**Eye contact** – Contact may cause slight temporary eye irritation.

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

**Inhalation** – At room temperature, exposure to vapor is minimal due to low volatility. Vapor from heated material may cause respiratory irritation.

**Ingestion** – 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.

For more information, request the Safety Data Sheet from the [Dow Customer Information Group](#).

### Environmental Information

11

Based on similar materials, SYNALOX™ 100-T140 Lubricant is expected to be inherently and ultimately biodegradable. Releases to soil or water would be expected to slowly and completely biodegrade, and efficient removal is expected during treatment in biological wastewater-treatment facilities. Due to its high molecular weight and insolubility in water, this product would not be expected to bioconcentrate (accumulate in the food chain) and is considered practically non-toxic to aquatic organisms on an acute basis.

For more information, request the Safety Data Sheet from the [Dow Customer Information Group](#).

### Physical Hazard Information

12

SYNALOX™ 100-T140 Lubricant is stable at normal storage and use temperatures; however, elevated temperatures can cause this product to decompose. Generation of gas during decomposition can cause pressure build-up in closed systems. Avoid contact with strong acids, strong bases, or 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 SYNALOX™ 100-T140 Lubricant. 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

- Request the Safety Data Sheet from the Dow Customer Information Group.
- Contact Us (www.dow.com/polyglycols/synalox/contact/contact.htm)

For more business information about SYNALOX 100-T140 Lubricant, visit the SYNALOX™ Fluids and Lubricants web site at www.dow.com/polyglycols/synalox/index.htm.

References

1. SYNALOX™ 100-T140 Lubricant Safety Data Sheet, The Dow Chemical Company, July 10, 2008, Composition / Information on Ingredients section.
7. SYNALOX™ 100-T140 Safety Data Sheet, The Dow Chemical Company, July 10, 2008, Composition / Information on Ingredients section.
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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Back to top

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