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
- Silicones and Feel Modifiers
- Topcoat system
- PRIMAL™ 191 Emulsion
- ROSILK™ 2000 Feel Modifier
- ROSILK 2229 Feel Modifier
- ROSILK 3339 Feel Modifier
- ROSILK 5559 Feel Modifier

Product Overview
- Silicones and Feel Modifiers are water-based silicone emulsions supplied as white milky liquids by The Dow Chemical Company.\(^1\)\(^2\) For further details, see Product Description.
- Silicones and Feel Modifiers are industrial products designed for leather finishing applications.\(^3\) For further details, see Product Uses.
- These products are for industrial use. Worker exposure is possible during manufacture, transport, or application. Consumers may be exposed to finished leather treated with these feel modifiers in automotive, footwear, furniture, or garment applications.\(^4\) For further details, see Exposure Potential.
- In the industrial setting, eye contact may cause moderate irritation, reddening, tearing, conjunctivitis, and pain. Prolonged or repeated skin contact can cause slight irritation. These products may be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Inhalation of vapor or mist can cause irritation of the nose, throat and lungs, as well as headache and nausea.\(^5\) For further details, see Health Information and request the relevant Safety Data Sheet from the Dow Customer Information Group.
- The silicone resins in Silicones and Feel Modifiers are expected to slowly degrade in the environment. Due to their high molecular weight, the resins are not expected to accumulate in the food chain, and they are not expected to be toxic to aquatic organisms on an acute basis.\(^6\) For further details, see Environmental Information.
- These products are stable under recommended storage and normal use conditions. Avoid temperatures above 177°C (350°F), and contact with strong oxidizing agents.\(^7\) For further details, see Physical Hazard Information.

\(^{TM}\)Trademark of The Dow Chemical Company (“Dow”) or an affiliated company of Dow
Product Safety Assessment: Silicones and Feel Modifiers

Manufacture of Product
- **Locations** – Silicones and Feel Modifiers are manufactured in various global locations by The Dow Chemical Company and its global affiliates.
- **Process** – Silicones and Feel Modifiers are produced in batch operations using proprietary materials, methods, and technology.

Product Description
Silicones and Feel Modifiers are water-based silicone emulsions supplied as white milky liquids with a solvent odor. Products range from 43.5 to 60% solids.

Product Uses
Silicones and Feel Modifiers are commercial products designed for leather finishing. These products enhance the performance and feel of leather in automotive, furniture, footwear, and garment applications.

Exposure Potential
Silicones and Feel Modifiers are used in the leather finishing industry. Based on the uses for these products, individuals could be exposed through:

- **Workplace exposure** – Exposure can occur either in facilities that manufacture Silicones and Feel Modifiers or in the various industrial or manufacturing facilities that use these products. These products are produced, distributed, and stored in closed systems. Those working with Silicones and Feel Modifiers in manufacturing operations could be exposed during maintenance, sampling, testing, application, 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 Silicones and Feel Modifiers** – Dow does not sell Silicones and Feel Modifiers for direct consumer use, but these products are used in leather finishing for automotive, furniture, clothing, and footwear applications. Individuals could come into contact with leather products treated with Silicones and Feel Modifiers. Exposure to cured or dried product is not considered to present a risk to consumers. 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. For small spills, Silicones and Feel Modifiers should be absorbed with materials such as sand. If released to the environment, the silicone resins will tend to float in water and will be removed in biological wastewater treatment plants by adsorption to biosolids. 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 reprocessed or disposed of according to applicable governmental regulations. Contain spills immediately with inert materials. Keep people away from and upwind of spill. Material can create slippery conditions. Use personal protective equipment. Keep spills and cleaning runoff out of municipal sewers and open bodies of water. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. See Environmental, Health, and Physical Hazard Information.
- **In case of fire** – This product is not combustible until evaporated to dryness. Use extinguishing techniques appropriate for the surrounding fire. Material can splatter above 100°C (212°F). Firefighters should wear self-contained breathing apparatus and protective suit. See Environmental, Health, and Physical Hazard Information.

For more information, request the relevant Safety Data Sheet from the Dow Customer Information Group.
Health Information
Health information for Silicone and Feel Modifiers is summarized on the relevant Safety Data Sheets. These materials may also contain minor components or additives that have additional health risks. It is important to note that health risks associated with individual products may vary based on their formulation or intended use. The Safety Data Sheet is the preferred source for specific health information. An overview of health information for Silicone and Feel Modifiers appears below.

**Eye contact** – Contact can cause moderate irritation, reddening, tearing, conjunctivitis, and pain.

**Skin contact** – Prolonged or repeated skin contact can cause slight irritation.

**Inhalation** – Inhalation of vapor or mist can cause headache, nausea, and irritation of the nose, throat, and lungs.

**Ingestion** – These products may be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

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

Environmental Information
Environmental information for Silicones and Feel Modifiers is summarized on the relevant Safety Data Sheets. These materials may also contain solvents or additives that have additional environmental impact. It is important to note that environmental impact associated with individual products may vary based on their formulation or intended use. The Safety Data Sheet is the preferred source for specific environmental information. An overview of environmental information for Silicones and Feel Modifiers appears below.

The silicone resins in Silicones and Feel Modifiers are insoluble in water and not volatile. If released to the aqueous environment, they will tend to float in water and eventually bind to soil, suspended particles, or sediment. Although the resins do not biodegrade, they will be expected to slowly degrade in the environment, including degradation by physical action or by exposure to sunlight. The resins would likely be removed in biological wastewater treatment plants by adsorption to biosolids. The silicone resins are not expected to accumulate in the food chain due to their high molecular weight, and they are not expected to be toxic to fish or 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
Silicones and Feel Modifiers produced by The Dow Chemical Company are stable under recommended storage and normal use conditions. Avoid temperatures above 177°C (350°F), the onset of thermal decomposition. Thermal decomposition is dependent on time and temperature. Keep these products from freezing, as product stability may be affected.

Vapors can be released when these products are heated during processing operations. Avoid contact with strong oxidizing agents.

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 Silicones and Feel Modifiers. 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 Safety Data Sheets from the Dow Customer Information Group (www.dow.com/assistance/dowcig.htm)
- Contact Us (www.dow.com/company/contact/)
- **ROSILK™ 2000 Feel Modifier Technical Data Sheet** (www.dow.com/products/tds/1121069/)
- **ROSILK™ 2229 Feel Modifier Technical Data Sheet** (www.dow.com/products/tds/1120400/)
- **PRIMAL™ 191 Emulsion Technical Data Sheet** (www.dow.com/products/tds/1121110/)


**References**
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.

The information herein is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Dow be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information herein or the product to which that information refers.

Nothing contained herein is to be construed as a recommendation to use any product, process, equipment or formulation in conflict with any patent, and Dow makes no representation or warranty, express or implied, that the use thereof will not infringe any patent.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

Dow makes no commitment to update or correct any information that appears on the Internet or on its World-Wide Web server. The information contained in this document is supplemental to the Internet Disclaimer, www.dow.com/homepage/term.asp.

Back to top

Form No. 233-01121-MM-0114