



Helmar H4000 Silicone Fluid

Technical Data Sheet

FEATURES & BENEFITS

Ease of application, Lubricates, Protects, Shines, Restores,
Food grade silicone, Non – staining, Superior corrosion resistance,
Superior water & salt water resistance, Superior low and high temperature performance,
Withstands mild acid & alkaline exposure, Low friction,
Resistant to oxidation, chemicals and weather,
Prevents ice adhesion. Repels ink & water, Enhances colour,
High spreadability and compatibility, Low environmental hazard, Low fire hazard,
Low reactivity and vapour pressure, Essentially odourless, tasteless and non-toxic,
Soluble in a wide range of solvents.

DESCRIPTION

Helmar H4000 Silicone Fluid is a polydimethylsiloxane polymer.

COMPOSITION

Polydimethylsiloxane polymers.

HOW TO USE

Helmar H4000 Silicone Fluid is highly soluble in organic solvents such as aliphatic and aromatic hydrocarbons. Helmar H4000 Silicone is insoluble in water and many organic products. A ratio of 5-10% Helmar H4000 Silicone oil to your chosen solvent is needed for applications to form a uniform film and effective barrier.

Do not spray or apply on any surface (which is to be walked on), as the surface will become slippery. To remove silicone over-spray or excess from surfaces use a clean cloth and solvent.

APPLICATIONS

N.B. Always test first for your specific application.

Home: Curtain tracking, sliding draws, sliding windows, door tracking, squeaky hinges, garage door tracking, zippers, hand saw blades, circular saw blades, compound saw blades, pruners, hedger, shears & cutters, leather, plastic, rubber, swimming pool filter equipment (preserves & protects rubber o-rings). + Hundreds of other uses!

Sport: Fishing equipment (rods & reels), firearms, fishing equipment, leather footwear, ski equipment (bindings), treadmills, archery, sailing and boating equipment. + Hundreds of other uses!

Automotive: Door locks, hinges, stops moisture buildup in ignition systems, all rubber components, dashboards, trim, rubber mouldings, tyres, battery terminals, cables, window channels. + Hundreds of other uses!

Industrial: Sliding surfaces, conveyor belts, as a mould & release agent, heat-sealing equipment, as a spatter guard, cutting knives, saw blades, needle points, fabric cutting tables surfaces. + Hundreds of other uses!

Food Grade

Helmar H4000 Silicone spray and Silicone fluid meet the requirements of lubricants with incidental food contact. Helmar Silicone Spray and Silicone fluid meet or exceed the requirements of the United States Food & Drug Administration CFR 21 Section 178.3570 Lubricants with incidental food contact and the US Department of Agriculture H1 lubricant category. Helmar H4000 Silicone may be safely used on machinery used for producing, manufacturing, packing, processing, preparing, treating, packaging, transporting, or holding food.

Where Helmar H4000 Silicone is used on food-processing equipment as a protective anti-rust film, as a release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment in locations in which there is exposure of the lubricated part to food. The amount used should be the minimum required to achieve the desired technical effect on the equipment, and any addition to food is not to exceed one part per million.

TYPICAL PROPERTIES

Test Unit Helmar H4000

Appearance Crystal clear

Specific Gravity at 25°C (77°F) 0.969

Refractive Index at 25°C (77°F) 1.4034

Color, APHA 5

Viscosity 350 cSt

Flash Point, Open Cup °C (°F) >326 (>620)

Acid Number, BCP trace

Melt Point °C (°F) 1,2 -26 (-15)

Pour Point °C (°F) -50 (-58)

Volatile Content, at 150°C (302°F) percent 0.15

Solubility Parameter 7.4

Solubility in Typical Solvents

Chlorinated Solvents - High

Aromatic Solvents - High

Aliphatic Solvents - High

Dry Alcohols - High

Water - Poor

PRODUCT SAFETY INFORMATION

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT SAFETY DATA SHEET AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION.

Disclaimer:

Technical Data Sheets are updated frequently. Please ensure that you have a current copy. This Technical Data Sheet summarises at the date of issue our best knowledge of appropriate product information. Since Helmar Australia Pty Ltd & Helmar USA Inc. cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this Technical Data sheet and the Safety Data Sheet in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

The information and recommendations set down here in this document are presented in good faith and to the best of Helmar Australia Pty Ltd's & Helmar USA Inc.'s knowledge. Helmar Australia Pty Ltd & Helmar USA Inc. cannot predict or control the conditions of use or handling of this product and each user must review this document and the product safety data sheet in the context of the conditions under which they intend to handle and use this product. It is the responsibility of the user to ensure a proper assessment has been carried out. No representations or warranties, either expressed or implied, or merchantability, fitness for purpose or any other nature are made here under with respect to the product to which this information refers.

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