



THE WORLD'S LEADING MANUFACTURER OF PREMIUM FOOD GRADE LUBRICANTS

HAYNES SILICONE GREASE

Synthetic Lubricating Grease 4 oz Tubes, Pails, and Drums NSF rated H-1



Haynes[®] Silicone Grease is a food-grade grease that can be used on a variety of application in food and pharmaceutical plants where incidental food contact may occur. Haynes[®] Silicone Grease is NSF rated H-1 and made from ingredients that are FDA approved. This sanitary grease complies with all regulatory agencies.

Haynes[®] Silicone Grease is specifically formulated with the highest quality silicone fluid and additives to meet the unique demands placed on all types of food processing equipment. This grease will prevent valves and o-rings from sticking in both high temperature and low temperature (freezing) conditions. Haynes[®] Silicone Grease can be used in high vacuum or pressure systems to seal synthetic rubber and plastic parts that come in contact with metal. The grease is inert and will resist many chemicals. It can be effectively used on EPDM seals where grease compatibility is a concern.

COMMON APPLICATIONS:

- VALVE SEATS
- O-RINGS
- FLOW METERS
- PLUG VALVES
- ELECTRICAL CONNECTORS
- IGNITION COMPONENTS
- ASSEMBLY LUBRICANT FOR RUBBER AND PLASTIC PARTS
- EPDM SEALS
- HIGH VACUUM OR PRESSURE SYSTEMS

TECHNICAL DATA INFORMATION

| TEST | ASTM METHOD | TYPICAL TEST RESULTS |
|---------------------------------------------------------------------------|-------------|----------------------|
| Appearance | | Translucent |
| Dropping Point, F | ASTM D-265 | None |
| Dielectric constant (of silicone base fluid) | | 2.75 |
| Volume Resistivity (of silicone base fluid) Ohm-cm | | 1 X 10 ¹⁴ |
| Water Resistance | | Excellent |
| Maximum Volatility (of silicone base fluid), 24 hrs. @ 150 C., % wt. loss | | 2.00 |

Haynes[®] Manufacturing Company 24142 Detroit Road Westlake, Ohio 44145
 U.S.A. & Canada: 1-800-992-2166 Phone: 440-871-2188 Fax: 440-871-0855
<http://www.haynesmfg.com> email: info@haynesmfg.com



Nonfood Compounds
Program Listed

October 27, 2006

Ms. Beth A. Kloos
HAYNES MANUFACTURING COMPANY
24142 DETROIT RD.
WESTLAKE, OH 44145
UNITED STATES

RE: HAYNES® Silicone Grease
Category Code: H1
NSF Registration No. 138969

Dear Ms. Beth A. Kloos:

NSF has processed the application for Registration of **HAYNES® Silicone Grease** to the NSF Registration Guidelines for Proprietary Substances and Nonfood Compounds (2004), which are available at <http://www.nsf.org>. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements including FDA 21 CFR for appropriate use, ingredient and labeling.

This product is acceptable as a lubricant with incidental food contact (H1) for use in and around food processing areas. Such compounds may be 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 a potential exposure of the lubricated part to food. The amount used should be the minimum required to accomplish the desired technical effect on the equipment. If used as an anti-rust film, the compound must be removed from the equipment surface by washing or wiping, as required to leave the surface effectively free of any substance which could be transferred to food being processed.

NSF Registration of this product is current when the NSF Registration Number, Category Code, and Registration Mark appear on the NSF-approved product label, and the registered product name is included in the current NSF White Book Listing of Nonfood Compounds at the NSF website (<http://www.nsf.org>). The NSF Registration Mark can be downloaded from the NSF website, at http://www.nsf.org/business/about_NSF/nsf_marks_download.asp.

NSF Listing of all registered Nonfood compounds by NSF International is not an endorsement of those compounds, or of any performance or efficacy claims made by the manufacturer.

Registration status may be verified at any time via the NSF web site, at <http://www.nsf.org>. Changes in formulation or label, without the prior written consent of NSF, will void registration, and will supersede the on-line listing.

Sincerely,

Jennifer De France
NSF Nonfood Compounds Registration Program

Company No: N03770

HAYNES Material Safety Data Sheet

Haynes Silicone Grease Haynes Manufacturing Company

1. Product and Company Identification

Product Name: Haynes Silicone Grease
Chemical Name: N/A
Chemical Family: Silicone
Product Use: Food-Grade Silicone Grease Compound
Manufacturer: Haynes Manufacturing Co.
24142 Detroit Road
Westlake, Ohio 44145, USA

Emergency Telephone Number: 1-800-992-2166
1-440-871-2188

For MSDS, Product Safety, or Regulatory Inquiries call: 1-800-992-2166 or
1-440-871-2188

Customer Service: 1-800-992-2166 or
1-440-871-2188

NFPA
Health – 1
Flammability – 1
Reactivity - 0

2. PRECAUTIONARY INFORMATION

May cause eye irritation. Prolonged and/or repeated skin contact may cause irritation.
Inhalation of mist or vapor may be irritating.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENTS | OSHA PEL | ACGIH TLV | ACGIH STEL | CAS # |
|------------|-------------|--------------|---------------|-------|
|------------|-------------|--------------|---------------|-------|

This Material Safety Data Sheet (MSDS) has been prepared under guidelines in OSHA Hazard Communication Standard 29 CFR 1910.1200.

This product contains no known hazardous ingredients.

None of the components of this product at concentrations greater than or equal to 0.1% are listed as a carcinogen or potential carcinogen by NTP, IARC, OSHA.

4. POTENTIAL HEALTH EFFECTS

EYE: Product contacting the eyes may cause irritation.

SKIN: Prolonged and/or repeated skin contact may cause irritation.
INGESTION: Do not induce vomiting. Small amounts aspirated into lungs during ingestion or vomiting may cause mild to severe pulmonary injury.
INHALATION: Not expected to be a route of exposure due to low volatility of product. At elevated temperatures, vapors or mists may be produced which may cause irritation to the respiratory tract.
CHRONIC EFFECTS OF OVEREXPOSURE: Prolonged and/or repeated exposure may cause irritation to the skin, eyes, or respiratory tract.
PRIMARY ROUTE(S) OF ENTRY:
Eye Skin X Inhalation Ingestion

5. FIRST AID

SKIN: Remove any contaminated clothing. Wash thoroughly for 15 minutes with soap and water. If irritation occurs, get medical attention.
EYES: Immediately flush with plenty of water for 15 minutes. If irritation occurs, get medical attention.
INGESTION: Do not induce vomiting. Get medical attention.
INHALATION: If respiratory discomfort or irritation occurs, move the person to fresh air. Get medical attention.

6. EMPLOYEE PROTECTION

RESPIRATORY: None under normal conditions. NIOSH-approved supplied-air respirator when exposed to mists or vapor from heated material.
VENTILATION: Mechanical (general) is satisfactory. Provide ventilation sufficient to prevent exceeding recommended exposure limit.
HANDS: Oil impervious gloves, if needed, to avoid prolonged or repeated skin contact.
EYES: Splash goggles or face shield when eye contact may occur.
OTHER: Avoid contact with skin and eyes. Wash thoroughly after handling.

7. PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE: Semi-translucent
ODOR: Odorless
BOILING POINT: Not determined
SPECIFIC GRAVITY (H₂O = 1): Not determined
VAPOR PRESSURE (mm Hg): Not determined
VAPOR DENSITY: Not determined
SOLUBILITY IN WATER: Insoluble
EVAPORATION RATE (Butyl acetate = 1): < 1
PHYSICAL FORM: Grease

8. REACTIVITY

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Oxides of carbon, Silicon dioxide.
HAZARDOUS POLYMERIZATION: Will not occur
STABILITY: Stable
INCOMPATIBILITY: Avoid contact with strong oxidizing agents such as liquid chlorine, concentrated oxygen, sodium hypochlorite, etc.

9. FIRE AND EXPLOSION DATA

FLASH POINT (COC): (of base oil) > 400 F (204 C)

FLAMMABLE LIMITS (approx. % by vol. in air):

LEL - No data available UEL - No data available

AUTOIGNITION TEMP: Not determined

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Use air-supplied breathing equipment for enclosed areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None indicated.

10. SPILL OR LEAK PROCEDURES

Recover free product. Contain any spill to prevent entry to sewers or streams. Add sand, earth or suitable absorbent to spill area. Transfer to closed container.

11. WASTE DISPOSAL METHODS

Dispose of in accordance with all applicable local, state and federal regulations. Use licensed waste oil disposal contractor, remove to regulated landfill, or incinerate in an approved facility. Empty containers may contain product residue. Do not cut, heat or weld on or around empty containers.

12. PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in closed containers away from heat or open flames. Do not store with oxidizing agents.

Not for internal use. Avoid contact with skin, eyes and clothing.

13. TOXICOLOGICAL INFORMATION

This product is a mixture not tested as a whole for toxicity. A threshold limit value of 5 mg/m³ is suggested for oil mist.

14. ECOLOGICAL INFORMATION

Not available.

15. REGULATORY INFORMATION

All components of this product are listed on the TSCA Inventory.

This product does not contain a SARA Title 3 Section 313 (40 CFR 372) reportable chemical.

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

16. TRANSPORTATION INFORMATION

Not regulated by US DOT, IMO, or ICAO.

17. OTHER INFORMATION

Additional Information: None available.

Prepared By:

Haynes Manufacturing Company
24142 Detroit Road
Westlake, Ohio 44145

We believe the statements, technical information, and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, expressed or implied, and we assume no responsibility for any loss, damage, of expense, direct or consequential, arising out of their use.