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| **1. Identification** | | | | | | | | | |
| **Product Name:** | Molykote 55 | | | | | | | | |
| **Application:** | Silicone Grease | | | | | | | | |
| **Appearance:** | White, Slight Odour | | | | | | | | |
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| **2. Composition** | | | | | | | | | |
| **General:** | Silicone grease. | | | | | | | | |
| **Hazardous Ingredients:** | None present. This is not a hazardous material as defined in the OSHA Hazard Communication Standard. | | | | | | | | |
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| **3. Hazard Identification** | | | | | | | | | |
| **Acute**  Eye: Direct contact may cause irritation  Skin: No significant irritation from single short-term exposure  Inhalation: No significant effects from single short-term exposure  Oral: Low ingestion hazard in normal use  **Prolonged Exposure**  Skin: Repeated or prolonged exposure may cause irritation  Other: No know applicable info | | | | | | | | | |
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| **4. First Aid Measures** | | | | | | | | | |
| **Eyes:** | Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes while holding the eyelid(s) open. Obtain medical attention. | | | | | | | | |
| **Skin:** | No health effects expected. If irritation does occur flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice. | | | | | | | | |
| **Ingestion:** | If irritation or discomfort occurs, obtain medical advice. | | | | | | | | |
| **Inhalation:** | If symptoms are experienced remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice. | | | | | | | | |
| **Other:** | None | | | | | | | | |
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| **5. Fire Fighting Measures** | | | | | | | | | |
| **Extinguisher Media:** | | | | On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide, dry chemical or water spray. Water can be used to cool fire exposed containers. | | | | | |
| **Product of Combustion:** | | | | Carbon oxides and traces of incompletely burned carbon compounds, Silicon dioxide, Metal oxides, Formaldehyde. | | | | | |
| **Protective Equipment:** | | | | Self contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool. | | | | | |
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| **6 Accidental Release Measures** | | | | | | | | | |
| Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements. | | | | | | | | | |
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| **7. Storage & Handling** | | | | | | | | | |
| **Handling Precautions:** | | | | | Use with adequate ventilation. Traces of benzene (carcinogen) may form if heated in air above 300oF (149oC). Provide ventilation to control vapour exposure within inhalation guidelines when handling at elevated temperatures. | | | | |
| **Storage Conditions:** | | | | | Use reasonable care and store away from oxidising materials. | | | | |
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| **8. Exposure Controls / Personal Protection Measures** | | | | | | | | | |
| **Exposure Limits:** | | | | | There are no components with work place exposure limits | | | | |
| **Personal Protection:** | | | | | **Engineering Controls**  No special ventilation required  **Respiratory Protection**  For most situations no respiratory protection will be required.  **Skin Protection**  Avoid skin contact by implementing good industrial hygiene practices and procedures. Select and use gloves and/or protective clothing to further minimize the potential for skin contact. Consult with your glove and/or personnel protective equipment manufacturer for selection of appropriate compatible materials.  **Eye Protection**  Wear safety glasses with side shields or goggles. Contact lenses should not be worn. | | | | |
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| **9. Physical & Chemical Properties** | | | | | | | | | |
| **Appearance:** | | | | | | White grease (physical) | | | |
| **Odour:** | | | | | | Slight odour | | | |
| **Flash Point (PMCC):** | | | | | | > 214 °F / > 101.1 °C (Closed Cup) | | | |
| **Boiling Point:** | | | | | | Not determined | | | |
| **Freezing point:** | | | | | | Not determined | | | |
| **Solubility in Water:** | | | | | | Not determined | | | |
| **pH:** | | | | | | Not determined | | | |
| **Specific gravity:** | | | | | | @ 25oC = 1.1 | | | |
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| **10. Stability & Reactivity** | | | | | | | | | |
| **Stability:** | | Stable | | | | | | | |
| **Incompatibility:** | | Oxidising material can cause a reaction, Temperatures above 300 oC | | | | | | | |
| **Decomposition:** | | Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds, Silicon dioxide, Metal oxides, Formaldehyde. | | | | | | | |
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| **11.Toxicological Information** | | | | | | | | | |
| **Ingestion:** | | | No known applicable information | | | | | | |
| **Eyes:** | | | No known applicable information | | | | | | |
| **Skin:** | | | No known applicable information | | | | | | |
| **Inhalation:** | | | No known applicable information | | | | | | |
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| **12. Ecological Information** | | | | | | | | | |
| **Environmental Fate and Distribution** | | Complete information is not yet available | | | | | | | |
| **Environmental Effects** | | Complete information is not yet available | | | | | | | |
| **Fate and Effects in Waste Water Treatment Plants** | | Complete information is not yet available | | | | | | | |
| **Ecotoxicity Classification Criteria** | | | | | | | | | |
| **Hazard Parameters (LC50 or EC50)** | | High | | | | | Medium | | Low |
| **Acute Aquatic Toxicity (mg/L)** | | <=1 | | | | | >1 and <=100 | | >100 |
| **Acute Terrestrial Toxicity (mg/L)** | | <=100 | | | | | >100 and <=2000 | | >2000 |
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| **13. Disposal Considerations** | | | | | | | | | |
| **RCRA Hazard Class (40 CFR 261)**  When a decision is made to discard this material, as received, is it classified as hazardous waste? **NO**  State or local laws may impose additional regulatory requirements regarding disposal. | | | | | | | | | |
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| **14. Transportation** | | | | | | | | | |
| DOT Road Shipment Information (49 CFR 172.101) | | | | | | | | Not subject to DOT. | |
| Ocean Shipment (IMDG) | | | | | | | | Not subject to IMDG code. | |
| Air Shipment (IATA) | | | | | | | | Not subject to IATA regulations. | |
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| **15. Regulatory Information** | | | | | | | | | |
| Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.  TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA  Inventory of Chemical Substances.  **EPA SARA Title III Chemical Listings**  **Section 302 Extremely Hazardous Substances (40 CFR 355):**  None.  **Section 304 CERCLA Hazardous Substances (40 CFR 302):**  None.  **Section 311/312 Hazard Class (40 CFR 370):**  Acute: No  Chronic: No  Fire: No  Pressure: No  Reactive: No  **Section 313 Toxic Chemicals (40 CFR 372):**  None present or none present in regulated quantities.  Note: Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed a reporting threshold.  **Supplemental State Compliance Information**  **California**  Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water  and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other  reproductive harm.  None known.  **New Jersey**  CAS Number Wt % Component Name  63148-62-9 70.0 - 90.0 Polydimethylsiloxane  7631-86-9 7.0 - 13.0 Silicon dioxide  NJ TSRN  14962700-847  2P  5.0 - 10.0 Silicone Metalloid Complex  **Pennsylvania**  CAS Number Wt % Component Name  63148-62-9 70.0 - 90.0 Polydimethylsiloxane  7631-86-9 7.0 - 13.0 Silicon dioxide  Trade Secret 5.0 - 10.0 Silicone Metalloid Complex | | | | | | | | | |
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| **16. Other Information** | | | | | | | | | |
| These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. | | | | | | | | | |