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Midsun 570 HVIC Material Safety Data Sheet (MSDS)

MANUFACTURER'S CONTACT INFORMATION:

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| I. Product Identification | |
|---------------------------|--|
| Trade Name | Midsun 570 HVIC Silicone Rubber Protective Coating |
| Chemical Name | Silicone Coating |
| Chemical Formula | Silicone Sealant |
| Molecular Weight | Polymer |

| II. Hazardous Ingredients of Material | | | | |
|---------------------------------------|---------|-------------|-----------------------|--|
| MATERIAL | % (Wt.) | CAS No. | ACGIH TLV | LD 50 |
| Petroleum Naphtha | 15-40 | 064742-88-7 | 100 PPM | > 6240 mg/kg (oral, rat), > 3120 mg/kg (dermal, rat), > 14000 mg/kg (inhal, rat) |
| Amorphous Silica | 1-5 | 7631-86-9 | 5mg/m ³ | > 5000 mg/kg oral/rat |
| Oximino Silane | 1-5 | 22984-54-9 | Not Established | 2400-3700 mg/kg oral/rat |
| Crystalline Quartz | 20-40 | 14808 | 0.1 mg/m ³ | Not Available |

| III. Physical/Chemical Data | |
|---|---|
| Appearance & Odor | Smooth, Thioxtropic paste, Hydrocarbon odor |
| Boiling Point | Not Available |
| Freezing Point | Not Available |
| Specific Gravity (25/25° C, H ₂ O = 1) | 1.2 |
| Evaporation Rate (n-Butyl Acetate = 1) | Not Applicable |
| % Volatile By Volume | 15 - 45 |
| Vapor Density (Air = 1) | Not Applicable |
| Solubility in Water | Insoluble |
| Solubility in Other Solvents | Soluble in Most Organic Solvents |
| Odor Threshold | Not Applicable |

| IV. Fire and Explosion Data | |
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| Flash Point (Method) | 42° C (P.M.C.C. ASTM D-93) |
| Flammable Limits in Air (% By Volume) | |
| Lower | Not Established |
| Upper | Not Established |
| Auto Ignition Temperature | No Data |
| Unusual Fire & Explosion Hazards | Carbon Dioxide, Carbon Monoxide, Silicone Dioxide, Nitrogen Oxides |
| Fire Extinguishing Media | Dry Chemical, CO ₂ , Water Spray, Chemical Foam |
| Special Fire Fighting Procedures | Wear Self-Contained Breathing Apparatus (SCBA) which provides eye protection and is NIOSH approved. Shut off fuel supply to fire if possible. Do not use direct water stream, this may spread the fire. |
| Hazardous Combustion Products | Possible release of crystalline silica (quartz). |

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V. Reactivity Data

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| Stability | Stable |
| Incompatibility | CONCENTRATED ACIDS OR BASES – cause degradation of polymer. Boiling water may soften and weaken material. |
| Hazardous Decomposition | Combustion will produce silicone dioxide, carbon dioxide and carbon monoxide. |
| Hazardous Polymerization | Will not occur |

VI. Health Hazard and Toxicological Data

| Routes of Exposure | Hazard Classification |
|----------------------|--|
| Inhalation | High concentrations are moderately irritating to respiratory passages. Prolonged exposure to high vapor concentrations can cause headaches, nausea, central nervous system depression, anesthesia and dizziness. |
| Skin Contact | Direct contact with vapor or liquid may cause defatting, dry and cracking of the skin. Prolonged and repeated contact may cause dermatitis. |
| Eye Contact | Liquid causes severe irritation on contact: may cause corneal burns and conjunctivitis. Vapor is an irritant: may cause corneal damage and photophobia (light sensitivity). |
| Ingestion | May cause headache, nausea, dizziness, anesthesia, and depression of the central nervous system and burning sensation. Very low oral toxicity. |
| Chronic Exposure | Effects of Exposure |
| Health Effects | Pulmonary Edema, Dermatitis |
| Toxicological Data | LD50 of mixture (calculated) Ingestion/Rat 4400 – 16700 mg/kg |
| Reproductive Data | No information available and no adverse reproductive effect are anticipated. |
| Mutagenicity Data | No information available and no adverse reproductive effect are anticipated. |
| Teratogenicity Data | No information available and no adverse reproductive effect are anticipated. |
| Carcinogenicity | Respirable Crystalline Silica has been classified as a probable carcinogen by the International Agency for Research on Cancer (IARC) and the National Institute for Occupational Health and Safety (NIOSH). Neither the base compound nor the cured sealant release any respirable quartz. |
| Synergistic Products | None Known |
| Delayed Effects | Decomposition product Methyl Ethyl Ketoxime (MEKO). Lifetime studies of rats and mice indicate the following long-term health effects. <ul style="list-style-type: none"> - increase in liver carcinomas in male mice (375 PPM) and male rats (375 PPM). - damage to factory epithelium in mice and rats (both sexes) at 15, 75 and 375 ppm - Normal exposure levels experienced by users indicate exposures of 3ppm or less. |

VII. First Aid Procedures

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| Provide general supportive measures (comfort, warmth, and rest). Consult a physician and/or the nearest Poison Control Center for all exposures except minor instances of inhalation or skin contact. Only a physician should remove solid or plastic material in the eye. | |
| Eyes | Do not attempt to physically remove solids or gums from eye. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes, by the clock, holding the eyelids open. Obtain medical attention immediately. |
| Skin | Remove contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap. If systems persist, obtain medical attention. Contaminated clothing should be laundered before re-use. |

VIII. Preventive Measures

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| A. PERSONAL PROTECTIVE EQUIPMENT | |
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| Respiratory Protection | NIOSH/MSHA approved air-purifying respirator, equipped with organic vapor/dust cartridge. |
| Eye/Face Protection | Chemical splash goggles |
| Clothing/Gloves | Gloves, coveralls, apron may be useful to prevent contamination of skin or clothing. |
| Resistance of Material for Protective Clothing | No specific data. Most rubbers and plastics are adequate. |
| Ventilation Requirements | Local exhaust provides sufficient removal of vapors. |
| B. STORAGE AND HANDLING | |
| Storage Conditions | Store in cool dry conditions. Keep container tightly sealed when not in use. |
| Handling Procedure | No specific measure required. Do not inhale vapor or ingest sealant. Cured Midsun Silicone Rubber Protective Coating products require no special precautions. |
| C. ENVIRONMENTAL PROTECTION | |
| Spill and Leak Procedure | Eliminate sources of ignition. Restrict access to area of spill. Provide ventilation and protective clothing if needed. Scrape-up sealant with cardboard or rag and place in container. |
| Waste Disposal | Review environmental regulations to disposal. Silicone wastes can often be incinerated in approved facilities. Solid waste may be sent to a designated landfill site. |

| IX. Regulatory Information/Classifications | |
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| WHMIS | <ol style="list-style-type: none"> 1. CLASS B-Flammable and Combustible Liquid Division 3-combustible 2. CLASS D-Poisonous and Infectious Material Division 2-Other Toxic Effects, Subdivision b-Toxic |
| TDG Information | Not Applicable |

| X. Additional Information and Sources Used | |
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| American Conference of Government Industrial Hygienists Inc., <i>Documentation of the Threshold Limit Values (TLV) and Biological Exposures Indices, 5th Edition</i> , 1986, Cincinnati, OH. | |
| National Institute for Occupational Safety and Health, <i>Registry of Toxic Effects of Chemical Substances</i> . | |
| Sigma-Aldrich Corporation, U.S.A., <i>The Sigma-Aldrich Library of Chemical Safety Data</i> , 1985. | |
| Sittig, M., <i>Handbook of Toxic and Hazardous Chemicals and Carcinogens</i> , 2 nd Edition, 1985, Park Ridge, NJ. | |
| Canadian Center of Occupational Health and Safety, <i>CHEMINFO</i> , Record #15E, #26E. | |
| Material Safety Data Sheets (MSDS) from Cabot Corporation, Wacker-Chemical GMBH, General Filtration, Dow Corning, Union Carbide, Hoechst Canada, Allied Signal and Enviro Tech International. | |

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