Midsun 570 HVIC Material Safety Data Sheet (MSDS)

Reviewed August 8, 2000

I **PRODUCT IDENTIFICATION**

PRODUCT NAME CHEMICAL NAME CHEMICAL FORMULA MOLECULAR WEIGHT Midsun 570 HVIC One-Part Silicone Rubber Protective Coating Coating Solution Silicone Sealant Polymer

II HAZARDOUS INGREDIENTS OF MATERIAL

MATERIAL Petroleum Naphtha	% 15-40	CAS NUMBER 064742-88-7	ACGIH TLV 100 PPM	LD50 >6240mg/kg (oral, rat)
r euroicum raphaia	15 40	004742 00 7	1001110	>3120mg/kg (dermal, rat) >14000mg/kg (inhal, rat)
Amorphous Silica	1-5	7631-86-9	5mg/m ³	>5000mg/kg oral/rat
Oximino Silane Crystalline Quartz	1-5 20-40	22984-54-9 14808	Not Est. 0.1mg/ m ³	2400-3700mg/kg oral/rat Not Available
erjstannie Quartz	20 10	11000	0.11mg/ m	1 (of 1 foundation

III PHYSICAL DATA

Boiling Point (°C) Freezing Point (°C) Vapor Pressure (mm Hg) Vapor Density (Air = 1) % V O C Specific Gravity (Water = 1) Solubility in Water Solubility in Other Solvents Evaporation Rate (Butyl Acetate = 1) Appearance and Other Odor Threshold

IV FIRE AND EXPLOSION DATA

Flash Point Lower Explosive Limit % Upper Explosive Limit % Autoignition Temperature Fire Extinguishing Agents Fire Fighting Procedures

Unusual Fire/ Explosive Hazard Hazardous Combustion Products

V. HEALTH HAZARD AND TOXICOLOGICAL DATA

A. EFFECTS OF CHRONIC EXPOSURE Health Effects

Health Effects	
Toxicological Data	
Carcinogenicity Data	

Reproductive Data Mutagenicity Data Teratogenicity Data Synergistic products Delayed Effects Not Available Not Available Negligible @ 25°C. Not Applicable 25.8 (2.58 lb./Gal) 1.2 Insoluble Soluble in Most Organic Solvents Not Applicable Smooth, Thoixtropic paste, Hydrocarbon odor Not Applicable

42 °C P.M.C.C. ASTM D-93. Not Established Not Established No Data Dry Chemical, CO2, Waterspray, Chemical Foam 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 Carbon Dioxide, Carbon Monoxide, Silicone Dioxide, Nitrogen Oxides Possible release of crystalline silica (quartz)

Possible release of crystalline silica (quartz) **DGICAL DATA** Pulmonary Edema, Dermatitis LD50 of mixture (calculated) Ingestion/Rat 4400 - 16700 mg/kg 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 or the cured

sealant release any respirable quartz No information available and no adverse reproductive effect are anticipated. No information available and no adverse reproductive effect are anticipated. No information available and no adverse reproductive effect are anticipated. None known.

Decomposition product Methyl Ethyl Ketoxime (MEKO). Lifetime studies of rats and mice indicate the following long-term health effects.

- increase in liver carcinomas in male mice (375 PPM) and male rats (375 PPM).

- damage to factory epithelium in both mice and rats (both sexes) at 15, 75 and 375ppm.

Normal exposure levels experienced by users indicate exposures of 3ppm of less.

B. EFFECTS OF ACUTE EXPOSURE

Inhalation

Moderately irritating to respiratory passages. Prolonged exposure to high vapor concentrations can cause headaches, nausea, and central nervous system depression, anesthesia and dizziness.

Eyes

Liquid causes severe irritation on contact: may cause corneal urns and conjunctivitis. Vapor is an irritant: may cause corneal damage

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 and photophobia (light sensitivity).

 Skin
 Direct contact with vapor or liquid may cause defatting, dry and cracking of the skin. Prolonged and repeated contact may cause dermatitis

 Ingestion
 Ingestion can cause headache, nausea, dizziness, anesthesia, and depression of the central nervous system and burning sensation.

VI FIRST AID PROCEDURES

Very low oral toxicity.

Inhalation	No emergency care anticipated. Treat symptomatically. If systems persist, consult physician.
Eye Contact	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 Contact	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.
Ingestion	Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT
	INDUCE VOMITING. Have victim drink 8 to 10 oz. (240 to 300 ml) of water or milk to dilute material in stomach. If
	vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Repeat the administration of
	water/milk. Obtain medical attention immediately.
First Aid	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.
Delayed (Subchronic & Chronic)	Decomposition product Methyl Ethyl Ketoxime (MEKO). In a chronic oral toxicity animal study, methyl ethyl ketoxime
Effects	produced an adverse effect upon red blood cells. This was found for all dose levels tested. Gross histopathologic
	alterations were observed in the spleen, lung, and kidney. In an acute dermal animal study, 200mg/kg caused mild
	hematologic (blood) effects. No effects were seen at 20mg/kg.

VII REACTIVITY DATA

Product Stability	Stable
Hazardous Polymerization	Will not occur
Incompatible Materials	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.
Products	•

VIII PREVENTATIVE MEASURES

A. PERSONAL PROTECTIVE EQUIPMENT

A. I LKOONAL I KOILCIIVL	
Respiratory Protection	NIOSH/MSHA approved air-purifying respirator, equipped with organic vapor/dust cartridge.
Eye/Face Protection	Chemicals splash goggles
Skin Protection	Gloves, coveralls, apron may be useful to prevent contamination of skin or clothing.
Resistance of Material for	No specific data. Most rubbers and plastics are adequate.
Protective Clothing	
Ventilation Requirements	Local exhaust provides sufficient removal of vapors.
B. STORAGE AND HANDLIN	NG
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 570 product requires no special
	precautions.

C. ENVIROMENTAL PROTECTION

Spill and Leak ProcedureEliminate sources of ignition. Restrict access to area of spill. Provide ventilation and protective clothing if needed.
Scrape-up sealant with cardboard of rag and place in container.
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 ADDITIONAL INFORMATION AND SOURCES USED

- 1. American Conference of Government Industrial Hygienists Inc., Documentation of the Threshold Limit Values (TLV) and Biological Exposures Indices, 5th Edition, 1986, Cincinnati, OH.
- 2. National Institute for Occupational Safety and Health, Registry of Toxic Effects of Chemical Substances
- 3. Sigma-Aldrich Corp., USA, The Sigma-Aldrich Library of Chemical Safety Data, 1985.
- 4. Sittig, M., Handbook of Toxic and Hazardous Chemicals and Carcinogens, 2nd Edition, 1985, Park Ridge, NJ.
- 5. Canadian Center of Occupational Health and Safety, CHEMINFO, Record #15E. #26E.
- 6. Material Safety Data Sheets from Cabot Corporation, Wacker-Chemical GMBH, General Filtration, Dow Corning, Union Carbide, Hoechst Canada, Allied Signal

X REGULATORY CLASSIFICATIONS

WHMIS Classifications

- 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 regulated in Canada

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