



## MATERIAL SAFETY DATA SHEET

### SSP278VRED

MANUFACTURED BY: SPECIALTY SILICONE PRODUCTS, INC.  
CORPORATE TECHNOLOGY PARK  
3 McCREA HILL ROAD  
BALLSTON SPA, NY 12020

EMERGENCY TELEPHONE: (518)-885-8826

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SUPPLIED BY: SPECIALTY SILICONE PRODUCTS, INC.  
CORPORATE TECHNOLOGY PARK  
3 McCREA HILL ROAD  
BALLSTON SPA, NY 12020

#### SECTION 1: MATERIAL IDENTIFICATION

MATERIAL ID: SSP278VRED  
COLOR: RED

FORMULA: MIXTURE

CHEMICAL FAMILY: SILICONE RUBBER MIXTURE

CHEMICAL NAME: DIPHENYL METHYLVINYL  
SILICONE COMPOUND

#### EMERGENCY OVERVIEW:

THIS IS A SOLID RUBBER COMPOUND. NO SIGNIFICANT HAZARDS ARE EXPECTED UNDER NORMAL CONDITIONS OF HANDLING AND USE.

#### SECTION 2: CHEMICAL COMPONENTS

<u>HAZARDOUS COMPONENTS</u>	<u>APPROX. WT. %</u>	<u>ACGIH</u>		<u>OSHA</u>		<u>UNITS</u>
		<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>	
OCTAMETHYLCYCLOTETRASILOXANE 556-67-2	1-5	5 PPM	NE	GE REC	NE	GUIDE
<u>NON-HAZARDOUS COMPONENTS</u>						
TETRAMER TREATED FUMED SILICA 68583-49-3	30-60	10	NE	15	NE	MG/M3
SILANOL/STOPD POLYDIMETHYLSILOXANE 0131-67-8	1-5	NF	NE	NF	NE	NA
DIPHENYLMETHYLVINYL SILICONE GUM 68951-95-1	60-80	NA	NE	NA	NE	NA
SILOXANES & SILICONES, DIMETHYLMETHOXY TERMINATED 68951-97-3	1-5	NE	NE	NE	NE	NA

#### SECTION 3: POTENTIAL HEALTH EFFECTS

#### SIGNS & SYMPTOMS OF EXPOSURE:

INGESTION: MAY BE HARMFUL IF SWALLOWED

SKIN CONTACT: MAY CAUSE MILD IRRITATION

EYE CONTACT: MAY CAUSE MILD EYE IRRITATION

INHALATION: NONE KNOWN

MEDICAL CONDITIONS AGGRAVATED: NONE KNOWN

SUBCHRONIC (TARGET ORGAN) EFFECTS: REPRODUCTIVE DISORDERS, MAY CAUSE LIVER EFFECTS

CHRONIC EFFECTS OF EXPOSURE: THIS PRODUCT OR ONE OF ITS INGREDIENTS PRESENT 0.1% OR MORE IS NOT LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN BY NTP, IARC, OR OSHA.

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PRINCIPAL ROUTES OF EXPOSURE: NONE KNOWN

**OTHER:**

**INJECTION:** RODENTS GIVEN LARGE DOSES VIA ORAL GAVAGE OF OCTAMETHYLCYCLOTETRASIOXANE (1600 MG/KG DAY, 14 DAYS) DEVELOPED INCREASED LIVER WEIGHTS RELATIVE TO UNEXPOSED CONTROL ANIMALS DUE TO HEPATOCELLULAR HYPERPLASIA (increased number of liver cells which appear normal) AS WELL AS HYPERTROPHY (increased cell size).

**INHALATION:** IN INHALATION STUDIES, LABORATORY RODENTS EXPOSED TO OCTAMETHYLCYCLOTETRA-SIOXANE (300 ppm five days week, 90 days) DEVELOPED INCREASED LIVER WEIGHTS IN FEMALE ANIMALS RELATIVE TO UNEXPOSED CONTROL ANIMALS. WHEN THE EXPOSURE WAS STOPPED, LIVER WEIGHTS RETURNED TO NORMAL. MICROSCOPIC EXAMINATION OF THE LIVER CELLS DID NOT SHOW ANY EVIDENCE OF PATHOLOGY. INHALATION STUDIES UTILIZING LABORATORY RABBITS AND GUINEA PIGS SHOWED NO EFFECTS ON LIVER WEIGHTS. INHALATION EXPOSURES TYPICAL OF INDUSTRIAL USAGE (5-10 PPM) SHOWED NO TOXIC EFFECTS IN RODENTS. RANGE FINDING REPRODUCTIVE STUDIES WERE CONDUCTED (Whole body inhalation, 70 days prior to mating, through mating, gestation and lactation) WITH OCTAMETHYLCYCLOTETRASIOXANE (D4). RATS WERE EXPOSED TO 70 AND 700 ppm. IN THE 700 ppm GROUP, THERE WAS A STATISTICALLY SIGNIFICANT REDUCTION IN MEAN LITTER SIZE AND IN IMPLANTATION SITES. NO D4 RELATED CLINICAL SIGNS WERE OBSERVED IN THE PUPS AND NO EXPOSURE RELATED PATHOLOGICAL FINDINGS WERE FOUND.

INTERIM RESULTS FROM A TWO GENERATION REPRODUCTIVE STUDY IN RATS EXPOSED TO 500 AND 700 ppm D4 (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation) RESULTED IN A STATISTICALLY SIGNIFICANT DECREASE IN LIVE MEAN LITTER SIZE AS WELL AS EXTENDED PERIODS OF OFF-SPRING DELIVERY (dystocia). THESE RESULTS WERE NOT OBSERVED AT THE 70 AND 300 PPM DOSING LEVELS.

THE RELEVANCE OF THESE DATA TO HUMANS IS UNCLEAR. FURTHER STUDIES ARE ON-GOING.

IN DEVELOPMENTAL TOXICITY STUDIES, RATS AND RABBITS WERE EXPOSED TO OCTAMETHYLCYCLOTETRASIOXANE AT CONCENTRATIONS UP TO 700 PPM AND 500 PPM RESPECTIVELY. NO TERATOGENIC EFFECTS (birth defects) WERE OBSERVED IN EITHER STUDY.

FORMALDEHYDE AT APPROXIMATELY 300°F (150°C) AND ABOVE, IN ATMOSPHERES WHICH CONTAIN OXYGEN. FORMALDEHYDE IS A SKIN AND RESPIRATORY SENSITIZER, EYE AND THROAT IRRITANT, ACUTE TOXICANT, AND POTENTIAL CANCER HAZARD.

#### SECTION 4: FIRST AID

EMERGENCY AND FIRST AID PROCEDURES:

**INGESTION:** DO NOT INDUCE VOMITING. DILUTE WITH 1-2 GLASSES OF MILK OR WATER AND SEEK MEDICAL ATTENTION.  
**SKIN:** WASH WITH SOAP AND WATER.

**INHALATION:** NONE KNOWN.

**EYES:** IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES AND GET MEDICAL ATTENTION IF ANY IRRITATION PERSISTS.

**NOTE TO PHYSICIAN:** NONE KNOWN

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**SECTION 5: FIRE & EXPLOSION**

FLASH POINT NA (F) NA (C) BY NA IGNITION TEMPERATURE: UNKNOWN (F) UNKNOWN (C)

FLAMMABLE LIMITS IN AIR: LOWER: NA UPPER: NA

EXTINGUISHING MEDIA ALL STANDARD FIRE FIGHTING MEDIA.

SPECIAL FIRE FIGHTING PROCEDURES:

WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.

**SECTION 6: STABILITY AND REACTIVITY**

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

**HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS:**

CARBON MONOXIDE

CARBON DIOXIDE

SILICON DIOXIDE

FORMALDEHYDE

INCOMPATIBILITY (MATERIALS TO AVOID): NONE KNOWN

CONDITIONS TO AVOID: NONE KNOWN

**SECTION 7: SPILL & LEAK RESPONSE**

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

SCRAPE, SWEEP, OR GATHER UP MATERIAL AND PUT IN A CONTAINER FOR DISPOSAL.

DISPOSAL METHOD: BURY IN A LICENSED LANDFILL IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

**SECTION 8: PERSONAL PROTECTION/EXPOSURE CONTROLS:**

RESPIRATORY PROTECTION: NONE KNOWN

PROTECTIVE GLOVES: CLOTH OR RUBBER GLOVES

EYE & FACE PROTECTION: SAFETY GLASSES OTHER: NONE KNOWN

ENGINEERING CONTROLS: EXHAUST VENTILATION DURING CURE.

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#### SECTION 9: STORAGE & HANDLING:

##### PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE:

CURE ONLY WHERE APPROPRIATE VENTILATION SYSTEMS EXIST. DURING CURE VAPORS ARE GIVEN OFF WHICH MAY BE HARMFUL.

#### SECTION 10: PHYSICAL & CHEMICAL PROPERTIES

##### PRODUCT INFORMATION:

BOILING POINT:	NA (F) NA (C)	5 VOLATILE BY VOLUME: <1
VAPOR PRESSURE (20 <sup>o</sup> C):	NA mm hg	EVAPORATION RATE: <1
VAPOR DENSITY (AIR=1):	NA	(BUTYL ACETATE=1)
FREEZING POINT:	NA ( F) NA (C)	SPECIFIC GRAVITY: 1.22 (WATER=1)
MELTING POINT	NA ( F) NA (C)	
PHYSICAL STATE:	SOLID	DENSITY: ≈1200
ODOR:	ESSENTIALLY ODORLESS	
COLOR:	CLEAR	ph: NA
ODOR THRESHOLD:	NA	
SOLUBILITY IN WATER	INSOLUBLE (20 <sup>o</sup> C):	
SOLUBILITY IN ORGANIC SOLVENT	(STATE SOLVENT): PARTIALLY IN TOLUENE	

#### SECTION 11: TOXICOLOGICAL INFORMATION

##### PRODUCT INFORMATION

##### TOXICITY:

ACUTE ORAL LD<sub>50</sub> NOT TESTED

ACUTE DERMAL LD<sub>50</sub> NOT TESTED

ACUTE INHALATION LC<sub>50</sub> NA

#### SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: NONE KNOWN

CHEMICAL FATE INFORMATION: NONE KNOWN

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#### SECTION 13: REGULATORY INFORMATION

DOT SHIPPING NAME: NOT DOT REGULATED.  
 DOT HAZARD CLASS: NONE  
 DOT LABEL(S) NONE  
 UN/NA NUMBER: NONE

US FEDERAL REGULATIONS:

SARA HAZARD CLASS (SECTION 311, 312): NONE

SARA SECTION 313: NONE

TSCA: ALL INGREDIENTS IN THIS MATERIAL ARE ON THE TSCA INVENTORY.

#### SECTION 14: SUPPLEMENTAL INFORMATION

WASTE MANAGEMENT INFORMATION:

THIS PRODUCT AS SOLD IS NOT A HAZARDOUS WASTE ACCORDING TO 40 CFR 261.  
 DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

HAZARD RATING SYSTEMS

HMIS	FLAMMABILITY 0	REACTIVITY 0	HEALTH 0
NFPA	FLAMMABILITY 0	REACTIVITY 0	HEALTH 0

OTHER:

THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.

KEY:

C:	CEILING LIMIT	NEGL:	NEGLIGIBLE
EST:	ESTIMATED	NF:	NONE FOUND
NA	NOT APPLICABLE	UNKN:	UNKNOWN
NE:	NONE ESTABLISHED	REC:	RECOMMENDED
ND:	NONE DETERMINED	V:	RECOMMENDED BY VENDOR
R:	RECOMMENDED	SKN:	SKIN
		TS:	TRADE SECRET

\*\*\* END \*\*\*