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MATERIAL SAFETY DATA SHEET

Section 1 – Company and Product Identification

Issued by: JEEN International Corporation
24 Madison Road
Fairfield, New Jersey 07004
Tel#: 973-439-1401

Chemtrec Emergency Telephone # 800-424-9300
Chemtrec Int'l Tel.# 703-527-3887(Collect Calls Accepted)

Revision Date: December 13, 2013

Product Trade Name: **JEESILC PDS-500**
Chemical Name: Polydimethylsiloxane
Chemical Family: Silicone
CAS Number: 63148-62-9
Description: Silicone Polymer
Health (NFPA): 1 Flammability (NFPA): 1 Reactivity (NFPA): 0

Section 2 – Hazardous Identification

POTENTIAL HEALTH EFFECTS

ACUTE EFFECTS

EYE: DIRECT CONTACT MAY CAUSE TEMPORARY REDNESS AND DISCOMFORT.
SKIN: NO SIGNIFICANT IRRITATION EXPECTED FROM A SINGLE SHORT-TERM EXPOSURE.
INHALATION: NO SIGNIFICANT EFFECTS EXPECTED FROM A SINGLE SHORT-TERM EXPOSURE.
ORAL: LOW INGESTION HAZARD IN NORMAL USE.

PROLONGED/ REPEATED EXPOSURE EFFECTS

SKIN: NO KNOWN APPLICABLE INFORMATION
INHALATION: NO KNOWN APPLICABLE INFORMATION
ORAL: NO KNOWN APPLICABLE INFORMATION.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

NO KNOWN APPLICABLE INFORMATION

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

NO KNOWN APPLICABLE INFORMATION

THE ABOVE LISTED POTENTIAL EFFECTS OF OVEREXPOSURE ARE BASED ON ACTUAL DATA, RESULTS OR STUDIED PERFORMED UPON SIMILAR COMPOSITION.

Section 3 – COMPOSITION

NONE PRESENT. THIS IS NOT A HAZARDOUS MATERIAL AS DEFINED IN THE OSHA HAZARD COMMUNICATION STANDARD.

Section 4 – FIRST AID MEASURES

EYE: IMMEDIATELY FLUSH WITH WATER
SKIN: NO FIRST AID SHOULD BE NEEDED
INHALATION: NO FIRST AID SHOULD BE NEEDED
ORAL: NO FIRST AID SHOULD BE NEEDED
NOTED TO PHYSICIAN: TREAT ACCORDING TO PERSON'S CONDITION AND SPECIFICS OF EXPOSURE

Section 5 – FIRE FIGHTING MEASURES

FLASH POINT: >248 F / 120 C (CLOSED CUP)
>482 F / >250 C (CLEVELAND OPEN CUP)
AUTOIGNITION TEMP: NOT DETERMINED
FLAMMABILITY LIMITS
IN AIR: NOT DETERMINED
EXTINGUISHING MEDIA: ON LARGE FIRES USE DRY CHEMICAL, FOAM OR WATER SPRAY. ON SMALL FIRES USE CARBON DIOXIDE (CO₂), DRY CHEMICAL OR WATER SPRAY. WATER CAN BE USED TO COOL FIRE EXPOSED CONTAINERS.



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Section 5 – FIRE FIGHTING MEASURES CONTINUED

FIRE FIGHTING MEASURES 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.

UNUSAL FIRE HAZARDS: NONE.

Section 6 – Reactivity Data

CONTAINMENT/CLEAN UP: DETERMINE WHETHER TO EVACUATE OR ISOLATE THE AREA ACCORDING TO YOUR LOCAL EMERGENCY PLAN. OBSERVE ALL PERSONAL PROTECTION EQUIPMENT RECOMMENDATIONS DESCRIBED IN SECTIONS 5 AND 8. FOR LARGE SPILLS, PROVIDE DIKING OR OTHER APPROPRIATE CONTAINMENT TO KEEP MATERIAL FROM SPREADING. IF DIKED MATERIAL CAN BE PUMPED, STORE RECOVERED MATERIAL IN APPROPRIATE CONTAINER. CLEAN UP REMAINING MATERIALS FROM SPILL WITH SUITABLE ABSORBANT. 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 SPONTENOUS

NOTE: SEE SECTION 8 FOR PERSONAL PROTECTIVE EQUIPMENT FOR SPILLS. CALL (989) 496-5900, IF ADDITIONAL INFORMATION IS REQUIRED.

Section 7 –HANDLING AND STORAGE

USE WITH ADEQUATE VENTILATION. AVOID EYE CONTACT.
USE REASONABLE CARE AND STORE AWAY FROM OXIDIZING MATERIALS.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

COMPONENT EXPOSURE LIMITS
THERE ARE NO COMPONENTS WITH WORKPLACE EXPOSURE LIMITS.

ENGINEERING CONTROLS

LOCAL VENTILATION NONE SHOULD BE NEEDED
GENERAL VENTILATION RECOMMENDED.

PERSONAL PROTECTIVE EQUIPMENT FOR ROUTINE HANDLING

EYE: USE PROPER PROTECTION – SAFETY GLASSES AS A MINIMUM
SKIN: WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE
SUITABLE GLOVES HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES
INHALATION: NO RESPIRATORY PROTECTION SHOULD BE NEEDED.
SUITABLE RESPIRATOR: NONE SHOULD BE NEEDED.

PERSONAL PROTECTIVE EQUIPMENT FOR SPILLS

EYES: USE PROPER PROTECTION – SAFETY GLASSES AS A MINIMUM.
SKIN WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE
INHALATION/ SUITABLE

RESPIRATOR: NO RESPIRATORY PROTECTION SHOULD BE NEEDED.

PRECAUTIONARY MEASURES AVOID EYE CONTACT. USE REASONABLE CARE.

COMMENTS: WHEN HEATED TO TEMPERATURES ABOVE 150 DEGREES C IN THE PRESENCE OF AIR PRODUCT CAN FORM FORMALDEHYDE VAPORS. FORMALDEHYDE IS A POTENTIAL CANCER HAZARD, A KNOWN SKIN AND RESPIRATORY SENSITIZER, AND AN IRRITANT TO THE EYES, NOSE, THROAT, SKIN AND DIGESTIVE SYSTEM. SAFE HANDLING CONDITIONS MAY BE MAINTAINED BY KEEPING VAPOR CONCENTRATIONS WITHIN THE OSHA PERMISSIBLE EXPOSURE LIMIT FOR FORMALDEHYDE.



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Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION CONTINUED

NOTE: THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING. USE AT ELEVATED TEMPERATURE OR AEROSOL / SPRAY APPLICATIONS MAY REQUIRE ADDED PRECAUTIONS. FOR FURTHER INFORMATION REGARDING AEROSOLINHALATION TOXICITY, PLEASE REFER TO THE GUIDANCE DOCUMENT REGARDING THE USE OF SILICONE-

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	CLEAR LIQUID, FREE OF SEDIMENT
COLOR:	COLORLESS
ODOR:	CHARACTERISTIC ODOR
SPECIFIC GRAVITY@ 25 C:	0.97
VISCOSITY	492 cSt
FREEZING/MELTING POINT:	NOT DETERMINED
BOILING POINT:	>65 C
VAPOR PRESSURE @ 25 C:	NOT DETERMINED
VAPOR DENSITY:	NOT DETERMINED
SOLUBILITY IN WATER:	NOT DETERMINED
PH:	NOT DETERMINED
VOLATILE CONTENT:	NOT DETERMINED
FLASH POINT:	> 248 F / > 120 C (CLOSED CUP) > 482 F / 250 C (CLEVELAND OPEN CUP)
AUTOIGNITION TEMP:	NOT DETERMINED
FLAMMABILITY LIMITS IN AIR:	NOT DETERMINED

NOTE: THE ABOVE INFORMATION IS NOT INTENDED FOR USE IN PREPARING PRODUCT SPECIFICATIONS.

Section 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY:	STABLE
HAZARDOUS DECOMPOSITION PRODUCTS:	HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
CONDITIONS TO AVOID:	NONE.
MATERIALS TO AVOID:	OXIDIZING MATERIAL CAN CAUSE A REACTION.

HAZARDOUS DECOMPOSITION PRODUCTS: 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. SILICONE DIOXIDE. FORMALDEHYDE.

Section 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICOLOGY DATA FOR PRODUCT

	SPECIES	TEST RESULTS
ORAL LD50	RAT	> 15,400 MG/KG

SPECIAL HAZARD INFORMATION ON COMPONENTS: NO KNOWN APPLICABLE INFORMATION

Section 12 – ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND DISTRIBUTION

AIR:	THIS PRODUCT IS A HIGH MOLECULAR WEIGHT LIQUID POLYMER WHICH HAS A VERY LOW VAPOUR PRESSURE (<1 MM Hg). AS A RESULT IT IS UNLIKELY TO BECOME AN ATMOSPHERIC CONTAMINANT UNLESS GENERATED AS AN AEROSOL.
WATER:	THIS PRODUCT HAS A VERY LOW WATER SOLUBILITY (<100 PPB). AS IT HAS A SPECIFIC GRAVITY OF <1, IF DISCHARGED TO WATER, IT WILL INITIALLY FORM A SURFACE FILM. AS THE PRODUCT IS NONE VOLATILE AND HAS A HIGH BINDING AFFINITY FOR PARTICULATE MATTER, IT WILL ADSORB TO PARTICULATES AND SEDIMENT OUT.



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Section 12 – ECOLOGICAL INFORMATION

SOIL: IF DISCHARGED TO SURFACE WATER, THIS PRODUCT WILL BIND TO SEDIMENT. IF DISCHARGED IN EFFLUENT TO A WASTE WATER TREATMENT PLANT, THE PRODUCT IS REMOVED FROM THE AQUEOUS PHASE BY BINDING TO SEWAGE SLUDGE. IF THE SEWAGE SLUDGE IS SUBSEQUENTLY SPREAD ON SOIL, THE SILICONE PRODUCT IS EXPECTED TO DEGRADE.

DEGRADATION: THIS PRODUCT, POLYDIMETHYLSILOXANE, DEGRADES IN SOIL ABIOTICALLY TO FORM SMALLER MOLECULES. THESE IN TURN ARE EITHER BIODEGRADED IN SOIL OR VOLATILIZED INTO THE AIR WHERE THEY ARE BROKEN DOWN IN THE PRESENCE OF SUNLIGHT. UNDER APPROPRIATE CONDITIONS, THE ULTIMATE DEGRADATION PRODUCTS ARE INORGANIC SILICA, CARBON DIOXIDE AND WATER VAPOUR. DUE TO THE VERY LOW WATER SOLUBILITY OF THIS PRODUCT, STANDARD OECD PROTOCOLS FOR READY AND INHERENT BIODEGRADABILITY ARE NOT SUITABLE FOR MEASURING THE BIODEGRADABILITY OF THIS PRODUCT. THE PRODUCT IS REMOVED > 80% DURING THE SEWAGE TREATMENT PROCESS.

ENVIRONMENTAL EFFECTS

TOXICITY TO WATER

ORGANISMS: BASED ON ANALOGY TO SIMILAR MATERIALS THIS PRODUCT IS EXPECTED TO EXHIBIT LOW TOXICITY TO AQUATIC ORGANISMS.

TOXICITY TO SOIL

ORGANISMS: EXPERIMENTS SHOW THAT WHEN SEWAGE SLUDGE CONTAINING POLYDIMETHYLSILOXANE IS ADDED TO SOIL, IT HAS NO EFFECT ON SOIL MICRO-ORGANISMS, EARTHWORMS OR SUBSEQUENT CROPS GROWN IN THE SOIL.

BIOACCUMULATION THIS PRODUCT IS A LIQUID AND IS A HIGH MOLECULAR WEIGHT POLYMER. DUE TO ITS PHYSICAL SIZE IT IS UNABLE TO PASS THROUGH OR BE ABSORBED BY BIOLOGICAL MEMBRANES. THIS HAS BEEN CONFIRMED BY TESTING OR ANALOGY WITH SIMILAR PRODUCTS.

FATE AND EFFECTS IN WASTE WATER TREATMENT PLANTS

THIS PRODUCT OR SIMILAR HAS BEEN SHOWN TO BE NON-TOXIC TO SEWAGE SLUDGE BACTERIA.

HAZARD PARAMETERS (LC50 OR EC50)	HIGH	MEDIUM	LOW
ACUTE AQUATIC TOXICITY	<=1	>1 AND <=100	>100
ACUTE TERRESTRIAL TOXICITY	<=100	>100 AND <=2000	>2000

THIS TABLE IS ADAPTED FROM "ENVIRONMENTAL TOXICOLOGY AND RISK ASSESSMENT", ASTM STP 1179, P.34, 1993.

THIS TABLE CAN BE USED TO CLASSIFY THE ECOTOXICITY OF THIS PRODUCT WHEN ECOTOXICITY DATA IS LISTED ABOVE. PLEASE READ THE OTHER INFORMATION PRESENTED IN THE SECTION CONCERNING THE OVERALL ECOLOGICAL SAFETY OF THIS MATERIAL.

Section 13 – DISPOSAL CONSIDERATIONS

RCRA HAZARD CLASS (40 CFR 261)

WHEN A DECISION IS MADE TO DISCARD THIS MATERIAL, AS RECEIVED, IS IT CLASSIFIED AS A HAZARDOUS WASTE? NO

STATE OR LOCAL LAWS MAY IMPOSED ADDITIONAL REGULATORY REQUIREMENTS REGARDING DISPOSAL. CALL (989) 496- 6315, IF ADDITIONAL INFORMATION IS REQUIRED.

Section 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



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Section 15 – REGULATORY INFORMATION

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 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 TRESHOLD.

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.

MASSACHUSETTS

NO INGREDIENT REGULATED BY MA RIGHT-TO-KNOW LAW PRESENT.

NEW JERSEY

CAS NUMBER	WT%	COMPONENT
63148-62-9	>60.0	POLYDIMETHYLSILOXANE

PENNSYLVANIA

CAS NUMBER	WT%	COMPONENT NAME
63148-62-9	>60.0	POLYDIMETHYLSILOXANE.

Section 16 – OTHER INFORMATION

Disclaimer: As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with applicable federal, state and local regulations remains the responsibility of the user