

MATERIAL SAFETY DATA SHEET

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Vendor Update: 10/7/2009
Date Prepared: 10/7/2009
MSDS Number: 0S2 ; CK1T2 ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: SILICONE CLEANER AND SURFACE PREP
HMIS Ratings:
NFPA Ratings:

Health: Slight(1)
 Flammability: Serious(3)
 Instability/Reactivity: Minimal(0)

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
HEXAMETHYLDISILOXANE	107-46-0	>60	200PPM				
Notes	THIS CHEMICAL IS HAZARDOUS AS DEFINED IN 29 CFR 1910.1200.						
OCTAMETHYLCYCLOTETRAILOXANE	556-67-2	0.5-1.5					
Notes	THIS CHEMICAL IS HAZARDOUS AS DEFINED IN 29 CFR 1910.1200.						
OCTAMETHYLTRISILOXANE	107-51-7	30.0-60.0	200PPM				
Notes	THIS CHEMICAL IS HAZARDOUS AS DEFINED IN 29 CFR 1910.1200.						
Other:	THE ABOVE COMPONENTS ARE HAZARDOUS AS DEFINED IN 29 CFR 1910.1200.						

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes: ACUTE AFFECTS: DIRECT CONTACT MAY CAUSE MILD IRRITATION.

Skin: ACUTE AFFECTS: NO SIGNIFICANT IRRITATION EXPECTED FROM A SINGLE SHORT TERM EXPOSURE. REPEATED OR PROLONGED CONTACT MAY CAUSE DEFATTING AND DRYING OF SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS.

Ingestion: ACUTE AFFECTS: LOW INGESTION HAZARD IN NORMAL USE. OVEREXPOSURE BY INGESTION MAY CAUSE DROWSINESS, DIZZINESS, CONFUSION OR LOSS OF COORDINATION. REPEATED INGESTION OR SWALLOWING LARGE AMOUNTS MAY INJURE INTERNALLY.

Inhalation: ACUTE AFFECTS: IRRITATES RESPIRATORY PASSAGES VERY SLIGHTLY. VAPOR OVEREXPOSURE MAY CAUSE DROWSINESS.

Signs and Symptoms of NO KNOWN APPLICABLE INFORMATION.

Exposure:

Medical Conditions Aggravated NO KNOWN APPLICABLE INFORMATION.

by Exposure:

Other: THE LISTED POTENTIAL EFFECTS OF OVEREXPOSURE ARE BASED ON ACTUAL DATA, RESULTS OF STUDIES PERFORMED UPON SIMILAR COMPOSITIONS, COMPONENT DATA AND/OR EXPERT REVIEW OF THE PRODUCT.

IV. FIRST AID MEASURES

Eyes:	IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES.
Skin:	REMOVE FROM SKIN AND WASH THOROUGHLY WITH SOAP AND WATER OR WATERLESS CLEANSER. GET MEDICAL ATTENTION IF IRRITATION OR OTHER ILL EFFECTS DEVELOP OR PERSIST.
Ingestion:	GET IMMEDIATE MEDICAL ATTENTION.
Inhalation:	REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF ILL EFFECTS PERSIST.
Other:	TREAT ACCORDING TO PERSON'S CONDITION AND SPECIFICS OF EXPOSURE.

V. FIRE FIGHTING MEASURES

Flash Point:	26.6°F/-3.00°C
Test Method:	CLOSED CUP
Lower Flammability Limit:	NOT DETERMINED
Upper Flammability Limit:	NOT DETERMINED
Extinguishing Agents:	ON LARGE FIRES USE MEDIUM EXPANSION (>30:1) AFFF ALCOHOL COMPATIBLE FOAM OR WATER SPRAY. ON SMALL FIRES USE MEDIUM EXPANSION (>30:1) AFFF ALCOHOL COMPATIBLE FOAM, CO2 OR WATER SPRAY. WATER CAN BE USED TO COOL FIRE EXPOSED CONTAINERS.
Unusual Fire or Explosion Hazards:	VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. STATIC ELECTRICITY WILL ACCUMULATE AND MAY IGNITE VAPORS. PREVENT A POSSIBLE FIRE HAZARD BY BONDING AND GROUNDING OR INERT GAS PURGE. FIRE BURNS MORE VIGOROUSLY THAN WOULD BE EXPECTED.
Fire Fighting Procedures:	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.
Other:	AUTOIGNITION TEMPERATURE: NOT DETERMINED. THERMAL BREAKDOWN OF THIS PRODUCT DURING FIRE OR VERY HIGH HEAT CONDITIONS MAY EVOLVE THE FOLLOWING HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES AND TRACES OF INCOMPLETELY BURNED CARBON COMPOUNDS. SILICON DIOXIDE. FORMALDEHYDE.

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup:	REMOVE POSSIBLE IGNITION SOURCES. DETERMINE WHETHER TO EVACUATE OR ISOLATE THE AREA ACCORDING TO YOUR LOCAL EMERGENCY PLAN. OBSERVE ALL PERSONAL PROTECTION EQUIPMENT RECOMMENDATIONS DESCRIBED IN SECTIONS V AND VIII. 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 ABSORBENT. CLEAN AREA AS APPROPRIATE SINCE SOME SILICONE MATERIALS, EVEN IN SMALL QUANTITIES, MAY PRESENT A SLIP
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HAZARD. FINAL CLEANING MAY REQUIRE USE OF STEAM, SOLVENTS OR DETERGENTS. DISPOSE OF SATURATED ABSORBANT OR CLEANING MATERIALS APPROPRIATELY, SINCE SPONTANEOUS HEAT 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 REGULATIONS ARE APPLICABLE. SECTION 13 AND 15 OF THIS MSDS PROVIDES INFORMATION REGARDING CERTAIN FEDERAL AND STATE REQUIREMENTS.

Other: NOTE: SEE SECTION VIII FOR PERSONAL PROTECTIVE EQUIPMENT FOR SPILLS.

VII. HANDLING AND STORAGE

Other: USE WITH ADEQUATE VENTILATION. AVOID EYE CONTACT. AVOID BREATHING VAPOR. KEEP CONTAINER CLOSED. DO NOT TAKE INTERNALLY. STATIC ELECTRICITY WILL ACCUMULATE AND MAY IGNITE VAPORS. PREVENT A POSSIBLE FIRE BY BONDING AND GROUNDING OR INERT GAS PURGE. KEEP CONTAINER CLOSED AND AWAY FROM HEAT, SPARKS, AND FLAME.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: FOR ROUTINE HANDLING: USE PROPER PROTECTION – SAFETY GLASSES AS A MINIMUM.
FOR SPILLS: USE FULL FACE RESPIRATOR.

Skin: FOR ROUTINE HANDLING AND SPILLS: WASH AT MEALTIME AND END OF SHIFT. CONTAMINATED CLOTHING AND SHOES SHOULD BE REMOVED AS SOON AS PRACTICAL AND THOROUGHLY CLEANED BEFORE REUSE. CHEMICAL PROTECTIVE GLOVES ARE RECOMMENDED. SUITABLE GLOVES: SILVER SHIELD(R). 4H(R).

Respiratory: FOR ROUTINE HANDLING: USE RESPIRATORY PROTECTION UNLESS ADEQUATE LOCAL EXHAUST VENTILATION IS PROVIDED OR AIR SAMPLING DATA SHOW EXPOSURES ARE WITHIN RECOMMENDED EXPOSURE GUIDELINES. INDUSTRIAL HYGIENE PERSONNEL CAN ASSIST IN JUDGING THE ADEQUACY OF EXISTING ENGINEERING CONTROLS.
FOR ROUTINE HANDLING, SUITABLE RESPIRATOR: ORGANIC VAPOR TYPE.
FOR SPILLS, SUITABLE RESPIRATOR: USE SELF-CONTAINED BREATHING APPARATUS (SCBA) OR OTHER SUPPLIED-AIR RESPIRATOR.

Engineering: LOCAL EXHAUST AND GENERAL VENTILATION RECOMMENDED.

Other: PRECAUTIONARY MEASURES: AVOID EYE CONTACT. AVOID SKIN CONTACT. AVOID BREATHING VAPOR. KEEP CONTAINER CLOSED. DO NOT TAKE INTERNALLY. USE REASONABLE CARE.
NOTE: THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING. USE AT ELEVATED TEMPERATURE, OR AEROSAL/SPRAY APPLICATIONS, MAY REQUIRE ADDED PRECAUTIONS.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: COLORLESS
Boiling Point: >35°C/95°F
Freezing Point: N/D
pH: N/D
Solubility in Water: N/D

Specific Gravity:	.78 @ 25C
Vapor Pressure:	N/D
Vapor Density:	N/D
Physical State:	LIQUID
Volatile Content:	NOT DETERMINED.
Other:	GENERIC DESCRIPTION: METHYL SILOXANE. THE ABOVE INFORMATION IS NOT INTENDED FOR USE IN PREPARING PRODUCT SPECIFICATIONS. CONTACT SUPPLIER BEFORE WRITING SPECIFICATIONS.

X. STABILITY AND REACTIVITY

Stability:	STABLE
Hazardous Polymerization:	WILL NOT OCCUR
Hazardous Decomposition Products:	THERMAL BREAKDOWN OF THIS PRODUCT DURING FIRE OR VERY HIGH HEAT CONDITIONS MAY EVOLVE THE FOLLOWING HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES AND TRACES OF INCOMPLETELY BURNED CARBON COMPOUNDS. SILICON DIOXIDE. FORMALDEHYDE.
Incompatible Products:	OXIDIZING MATERIAL CAN CAUSE A REACTION.
Conditions To Avoid:	NONE.

XI. TOXICOLOGICAL INFORMATION

Acute Toxicology Data:	COMPLETE INFORMATION IS NOT YET AVAILABLE
Component Toxicology Information:	COMPLETE INFORMATION IS NOT YET AVAILABLE

XII. ECOLOGICAL INFORMATION

Environmental Fate and Distribution:	AIR: THIS PRODUCT IS A SMALL LOW MOLECULAR WEIGHT VOLATILE COMPOUND, IT WILL THEREFORE READILY PARTITION INTO THE ATMOSPHERE. IT IS HOWEVER NOT A HYDROCARBON SOLVENT. 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. HOWEVER AS IT IS VERY VOLATILE, THE PRODUCT WILL RAPIDLY EVAPORATE INTO THE AIR. THE AQUATIC HALF LIFE IS ESTIMATED AT BETWEEN 1-5 DAYS. SOIL: AS A RESULT OF RAPID PARTITIONING INTO THE ATMOSPHERE, THIS PRODUCT IS UNLIKELY TO BE FOUND IN SEDIMENT OR AS A COMPONENT OF SEWAGE SLUDGE.
Ecotoxicity:	TOXICITY TO WATER ORGANISMS: BASED ON ANALOGY TO SIMILAR MATERIALS THIS PRODUCT IS EXPECTED TO EXHIBIT LOW TOXICITY TO AQUATIC ORGANISMS. THIS PRODUCT IS VOLATILE AND HAS A VERY SHORT HALF LIFE IN THE AQUATIC ENVIRONMENT AND THEREFORE DOES NOT PRESENT A RISK TO AQUATIC ORGANISMS. TOXICITY TO SOIL ORGANISMS: DUE TO ITS VOLATILITY, THIS PRODUCT IS UNLIKELY TO BE FOUND IN THE TERRESTRIAL COMPARTMENT. BIOACCUMULATION: THIS PRODUCT IS A LOW MOLECULAR WEIGHT LIPOPHILIC MOLECULE WHICH HAS THE POTENTIAL FOR BIOCONCENTRATION.

Persistence and Degradation: DEGRADATION: THIS PRODUCT IS VOLATILE AND IS DEGRADED RAPIDLY IN THE ATMOSPHERE WITH A HALF LIFE OF <30 DAYS. 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.

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/Kg)	<=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 this section concerning the overall ecological safety of this material.

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: WHEN A DECISION IS MADE TO DISCARD THIS MATERIAL, AS RECEIVED, IS IT CLASSIFIED AS A HAZARDOUS WASTE? YES

RCRA Class: 40CFR 261

Other: CHARACTERISTIC WASTE: IGNITABLE: D001. CORROSIVE: NA
REACTIVE: NA
STATE OR LOCAL LAWS MAY IMPOSE ADDITIONAL REGULATORY REQUIREMENTS REGARDING DISPOSAL.

XIV. TRANSPORT INFORMATION

D.O.T. Shipping Name: FLAMMABLE LIQUID, N.O.S.

D.O.T. Hazard Class: 3

Other: ROAD SHIPMENT: UN/NA NUMBER: UN1993, PACKING GROUP: II, HAZARD TECHNICAL NAME: HEXAMETHYLDISILOXANE / OCTAMETHYLTRISILOXANE.OCEAN SHIPMENT (IMDG): PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S, HAZARD TECHNICAL NAME: HEXAMETHYLDISILOXANE/OCTAMETHYLTRISILOXANE, HAZARD CLASS: 3.2, UN NO: 1993, PACKING GROUP: II.AIR SHIPMENT (ICAO): PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S., HAZARD NAME: HEXAMETHYLDISILOXANE/OCTAMETHYLTRISILOXANE, HAZARD CLASS: 3, UN NO: 1993, PACKING GROUP: II.

XV. REGULATORY INFORMATION

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 312 HAZARD CLASS:
ACUTE: YES
CHRONIC: NO
FIRE: YES
PRESSURE: NO
REACTIVE: NO
SECTION 313 TOXIC CHEMICALS: NONE PRESENT OR NONE PRESENT IN REGULATED QUANTITIES.

Supplemental State Compliance Information:

California:	NONE KNOWN
Massachusetts:	NO INGREDIENT REGULATED BY MA RIGHT-TO-KNOW LAW PRESENT.
New Jersey:	Chemical HEXAMETHYLDISILOXANE CAS# 107-46-0 %Wt. >60.0, Chemical OCTAMETHYLTRISILOXANE CAS# 107-51-7 %Wt. 30-60.
Pennsylvania:	Chemical HEXAMETHYLDISILOXANE CAS# 107-46-0 %Wt. >60.0, Chemical OCTAMETHYLTRISILOXANE CAS# 107-51-7 %Wt. 30-60.

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, 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.