

LENAPE

120 Old Camplain Rd.
Hillsborough, NJ 08876
908-526-6800/FAX 908-526-7430

DATE ISSUED: 07/97
DATE REVISED: 11/2003

EMERGENCY PHONE
CHEMTREC 1-800-424-9300

MATERIAL SAFETY DATA SHEET SILICA

ORISIL® UNTREATED FUMED

SECTION I / IDENTIFICATION OF MATERIAL

CHEMICAL NAME OR COMPOSITION		SILICON DIOXIDE, CRYSTALLINE - FREE			
TRADE NAME & SYNONYMS		ORISIL® 150, 200, 300, 380 TA			
CHEMICAL FAMILY	OXIDE	MOLECULAR FORMULA	SiO ₂	CAS NO.	112945-52-5

SECTION II / HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	CAS NO.	%	ACGIH TLV	OSHA 8 HOUR TWA
SiO ₂	112945-52-5	99.8	10 md/m ³ TOTAL DUST	20 mppcf (6 mg/m ³)

SECTION III / PHYSICAL DATA

APPEARANCE AND ODOR	SOLID WHITE ODORLESS POWDER		
ODOR THRESHOLD	N/A	pH (APPROXIMATE % SILICA IN WATER)	3.6 - 4.3
BOILING POINT	2230 °C OR 4046°F	EVAPORATION RATE	NOT VOLATILE
MELTING/FREEZING POINT (APPROX)	1700°C OR 3092°F	% VOLATILE BY VOLUME	NOT VOLATILE
SOLUBILITY IN WATER	INSOLUBLE	SPECIFIC GRAVITY (@ 25°C)	2.2g/cm ³
VAPOR DENSITY	NOT VOLATILE	VAPOR PRESSURE	NOT VOLATILE
REID VAPOR PRESSURE	NOT VOLATILE	WATER / OIL DISTRIBUTION	N/A
MOLECULAR WEIGHT	60	VISCOSITY	NOT VOLATILE

SECTION IV / FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	N/A	METHOD USED	N/A	FLAMMABLE LIMITS	LEL	N/A	UEL	N/A
EXTINGUISHING MEDIA	USE MEDIA FOR SURROUNDING FIRE CONDITIONS							
SPECIAL FIRE FIGHTING PRECAUTIONS	STANDARD PERSONAL PROTECTIVE EQUIPMENT FOR STRUCTURAL FIREFIGHTING							
UNUSUAL FIRE AND EXPLOSION HAZARDS	ORISIL 200 FUMED SILICA IS AN INORGANIC DUST AND WILL NOT CREATE NOR SUPPORT CONDITIONS THAT WOULD RESULT IN AN EXPLOSION OR FIRE. MAIN HAZARD: DRY POWDERED MATERIALS CAN BUILD STATE ELECTRICAL CHARGES WHEN SUBJECTED TO FRICTION. PROPER PRECAUTIONS WHEN USING ORISIL 200 FUMED SILICA IN THE PRESENCE OF FLAMMABLE OR EXPLOSIVE GASES AND LIQUIDS SHOULD BE TAKEN TO PREVENT ACCIDENTS. PREVENT STATIC CHARGE WITH ELECTRICAL GROUNDING.							

SECTION V / REACTIVITY DATA

STABILITY (CHECK ONE)	UNSTABLE	STABLE	<input checked="" type="checkbox"/>	HAZARDOUS POLYMERIZATION	MAY OCCUR	WILL NOT OCCUR	<input checked="" type="checkbox"/>
CONDITIONS TO AVOID	AVOID EXTREME TEMPERATURES AND INCOMPATIBLE MATERIALS.						
INCOMPATIBILITY (MATERIALS TO AVOID)	HYDROGEN FLUORIDE AND STRONG BASES						
HAZARDOUS DECOMPOSITION PRODUCTS	NONE						

SECTION VI / HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE	DERMAL	MAY CAUSE DRYING OF SKIN. MEDICAL CONDITION DERMATITIS MAY BE AGGRAVATED				
	EYE	MAY CAUSE IRRITATION AT HIGH DUST LEVELS				
	INHALATION	MAY CAUSE COUGHING, SNEEZING, AND DRYNESS OF MUCOUS MEMBRANES				
	INGESTION	NONE IDENTIFIED				
EMERGENCY FIRST AID	DERMAL	NOT HAZARDOUS. WASH SKIN FOR PERSONAL HYGIENIC REASONS				
	EYE	IMMEDIATELY FLUSH LIGHTLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. PHYSICIAN SHOULD TREAT EYE IRRITATION SYMPTOMATICALLY				
	INHALATION	NOT HAZARDOUS. IN CASE OF DISCOMFORT, REMOVE EXPOSED INDIVIDUAL TO FRESH AIR. PHYSICIAN SHOULD TREAT LUNG IRRITATION SYMPTOMATICALLY.				
	INGESTION	NOT HAZARDOUS. NO TREATMENT RECOMMENDED FOR INGESTION				
CARCINOGENICITY	IARC?	NO	OSHA?	NO	NTP?	NO
TOXICITY	LD (50%) FOR MATERIAL	>10000 mg/kg, ACUTE ORAL RAT > 5000 mg/kg, ACUTE DERMAL RABBIT > 5000 mg/kg, RAT. NO OECD METHOD ORI-RAT 3, 160 mg/kg (SAX)				
	LC (50%) FOR MATERIAL	N/A >0.139 mg/1/4 HR, RAT ACUTE INHALATION				

SECTION VII / SPILL PROCEDURES & SAFE HANDLING REQUIREMENTS

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR LEAKED	SPILLS MAY BE COLLECTED, PREFERABLY BY VACUUM, AND PLACED IN SUITABLE CONTAINER FOR DISPOSAL.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE	FUMED SILICA IS NOT A HAZARDOUS WASTE. DISPOSE OF IN LANDFILL OR BY INCINERATION IN ACCORDANCE WITH INTERNATIONAL, U.S. FEDERAL AND LOCAL LAWS AND REGULATIONS. NOT A HAZARDOUS WASTE UNDER U.S. RCRA (RESOURCE CONSERVATION AND RECOVERY ACT) REGULATIONS. NOT A RESTRICTED/NON-HAZARDOUS WASTE UNDER CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) REGULATIONS
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE	VENTILATE WORK AREA IF NECESSARY. TAKE PRECAUTIONARY MEASURES AGAINST POSSIBLE BUILD-UP OF ELECTROSTATIC CHARGE. ASSESS MANUAL HANDLING OF BAGGED PRODUCT; TAKE SUITABLE PRECAUTIONS. PRODUCT SHOULD BE STORED DRY AND AWAY FROM VOLATILE CHEMICALS.
SPECIAL PRECAUTIONS	WEAR GOGGLES IF RELEASE CREATED CONDITIONS WHERE EYE CONTACT IS PROBABLE. IF AIRBORNE DUST CONCENTRATIONS EXCEED THE APPLICABLE EXPOSURE LIMIT, THEN AN APPROVED RESPIRATOR FOR DUST/MISTS IS RECOMMENDED. CLEAN SPILLS PROMPTLY.

SECTION VIII / SPECIAL PROTECTION INFORMATION

RESPIRATORY	APPROVED DUST/MIST RESPIRATOR RECOMMENDED FOR CONCENTRATIONS ABOVE APPLICABLE EXPOSURE LIMIT. TLV (U.S.) = 10 mg/m ³ TOTAL DUST FOR PARTICLES NOT OTHERWISE CLASSIFIED
SKIN	DRYING MAY OCCUR. BARRIER CREAM APPLICATION PRIOR TO SKIN EXPOSURE MAY ASSIST IN THE REMOVAL OF SILICA FROM THE SKIN.
EYE	SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES RECOMMENDED TO PREVENT EYE CONTACT
VENTILATION	USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET EXPOSURE LIMIT REQUIREMENTS.

SECTION IX / REGULATORY INFORMATION

DOT SHIPPING INFORMATION	NOT HAZARDOUS					
TSCA STATUS	ON INVENTORY					
HMIS/NFPA RATINGS	HEALTH	1	FLAMMABILITY	0	REACTIVITY	0

n/a or N/A means not applicable

n.d. or n/d or N/D means not determined

THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, EXCEPT THAT IT IS ACCURATE TO THE BEST KNOWLEDGE OF. THE DATA ON THIS SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN... ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THIS DATA.