

MATERIAL SAFETY DATA SHEET

METLAB CORPORATION, 4011 HYDE PARK BLVD., P.O. BOX 1075, NIAGARA FALLS, NY

SECTION I-PRODUCT IDENTIFICATION

TRADE NAME	COLLOIDAL SILICA SUSPENSION
SYNONYMS	COLLOIDAL SILICA DISPERSION
CAT#	M306, M306-32, M306-64 AND M306-128
ADDRESS	METLAB CORPORATION P. O. BOX 1075, 4011 HYDE PARK BLVD. NIAGARA FALLS, NY 14302-1075
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SECTION II-COMPONENTS & HAZARD CLASSIFICATION

Hazardous Components (Specific Chemical Identity; Common Names)	OSHA PEL	ACGIH TLV	Other Limits Recommended		%
			TLV	TWA	
1) SILICON DIOXIDE	20 Million particles per cubic foot of air (MPPCF-8 hr. time weighted average (TWA).	2 mg/m ³ RESPIRABLE DUST		TLV	TWA
CAS NAME	SILICA OR SILICON DIOXIDE				112926-00-8
CHEMICAL FAMILY	SILICATE				SiO ₂
ID NOS.-CODES	NIOSH REGISTRY NO. VV7322000				Included
2) Water					
3) Proprietary ingredients not classified as hazardous.	PEL/TLV not established for this ingredient(s).				

SHIPPING INFORMATION

DOT (172.101)	DOT-IMD (172.102)	IMD(PAGE)	IATA/ICAO
PROPER SHIPPING NAME	NOT REGULATED AS HAZARDOUS MATERIAL		
HAZARD CLASS	NOT REGULATED AS HAZARDOUS MATERIAL		

SECTION III-PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT (Liquid component is water)	100°C 212°F	VAPOR PRESSURE (mm Hg.)	25mmHg@25°C 48mmHG@38°C
SPECIFIC GRAVITY (Water = 1)	1.31	VAPOR DENSITY (Air = 1)	N/A
MELTING POINT	0°C/32°F	EVAPORATION RATE (Butyl Acetate = 1)	<1
SOLUBILITY IN WATER	100%	pH @ 25°C: 9.7 - 9.9	
APPEARANCE AND ODOR	BLUE ODORLESS LIQUID		

SECTION IV-FIRE & EXPLOSION DATA

FLASH POINT (Test Method)	WILL NOT BURN	AUTOIGNITION TEMPERATURE			N/A
FLAMMABLE LIMITS IN AIR, % BY VOL.		UPPER	N/A	LOWER	N/A
EXTINGUISHING MEDIA					N/A
SPECIAL FIRE FIGHTING PROCEDURES					N/A
UNUSUAL FIRE AND EXPLOSION HAZARD					N/A

SECTION V-REACTIVITY DATA					
STABILITY	Unstable	N/A	Conditions to avoid NO KNOWN HAZARDOUS INSTABILITY		
	Stable	YES			
INCOMPATIBILITY	(MATERIALS TO AVOID)		NO KNOWN HAZARDOUS INCOMPATIBILITY		
HAZARDOUS DECOMPOSITION OR BYPRODUCTS			NO KNOWN HAZARDOUS DECOMPOSITION		
HAZARDOUS POLYMERIZATION	May occur	N/A	Conditions to avoid NO KNOWN HAZARDOUS POLYMERIZATION		
	Will not occur	YES			
SECTION VI-HEALTH HAZARD INFORMATION					
FIRST AID					
EYES:	Flush with large amounts of water for 15 minutes. Seek medical aid.				
SKIN:	Flush with water. Seek medical aid if necessary.				
INHALATION:	Seek medical aid if necessary.				
INGESTION:	No specific intervention is indicated as compound is not likely to be hazardous by ingestion, however, seek medical aid if necessary.				
NATURE OF HAZARD					
EYES:	Mild irritation with discomfort, tearing or blurring of vision.				
SKIN:	Repeated skin contact may irritate some people.				
INHALATION:	Temporary lung effects with cough, discomfort, difficulty or shortness of breath. May cause a tissue response in the lung (pneumoconiosis) if mists or dusty dried particles are inhaled.				
INGESTION:	Not likely to be hazardous.				
CARCINOGENICITY:	Not listed as a carcinogen by IARC, NTP, OSHA, ACGIH or DU PONT.				
EXPOSURE LIMITS	INHALATION	6-HOUR LC50 => 250mg/m ³ IN RATS			
	ORAL	7,500mg/kg IN RATS			
TOXICITY DATA	NONE ESTABLISHED				
SECTION VII-PROCEDURES FOR SAFE HANDLING & USE					
SPILLS OR LEAKS	Flush with water to chemical sewer.				
WASTE DISPOSAL	Comply with Federal, State and Local Regulations.				
HANDLING & STORAGE	Keep containers tightly closed. Store at temperatures above 2°C(35°F).				
OTHER	SARA TITLE III CATEGORIES & LISTS:				
HMIS:	HEALTH=1 Slight.	Chronic Health:	YES	Acute Health:	YES
	FLAMMABILITY: 0 minimum	Fire Hazard:	NO	Pressure Hazard:	NO
	REACTIVITY: 0 MIN	Extremely Hazardous Substance:			NO
PERSONAL PROTECTION=E		CERCLA Hazardous Substance:			NO
CANADIAN WHMIS CLASSIFICATION: D2B		Toxic Chemical:			NO
SECTION VIII-SPECIAL PROTECTION INFORMATION					
VENTILATION	When sprayed, use local exhaust to prevent over spray to atmosphere.				
SPECIFIC PERSONAL PROTECTIVE EQUIPMENT					
RESPIRATORY:	Use NIOSH approved respirator where dust or spray mist occur.				
EYE:	Chemical splash goggles.				
GLOVES:	Rubber gloves.				
OTHER CLOTHING & EQUIPMENT:	As needed to avoid skin contact.				
WORK-HYGIENIC PRACTICES	Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist. Wash thoroughly after handling.				

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