


MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION					
PRODUCT NAME: Mikrosil Catalyst Paste		DATE: August 1, 2011			
PRODUCT NUMBER(S): 4-1010 (1005714)					
TRADE NAME: Casting Putty Hardener . Mikrosil Universal FUTUR Catalyst Paste. GENERAL USE: Casting putty hardener. CHEMICAL FAMILY: Alkyl silicate PRODUCT DESCRIPTION: Blue paste with faint, characteristic odor.					
MANUFACTURED FOR: Safariland LLC		DATE PREPARED: August 1, 2011			
		SUPERSEDES: September 19, 2008			
ADDRESS (NUMBER, STREET, P.O. BOX) 13386 International Parkway		TELEPHONE NUMBER FOR INFORMATION / Customer Service 800-347-1200			
(CITY, STATE AND ZIP CODE) Jacksonville, FL 32218		COUNTRY USA			
CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER					
		1-800-255-3924		01-813-248-0585	
		North America Toll Free		International	
SECTION 2 - HAZARDS IDENTIFICATION					
EMERGENCY OVERVIEW None identified.					
POTENTIAL HEALTH EFFECTS					
INHALATION: Capable of causing irritation of the nasal passages, throat and respiratory distress.					
SKIN: Skin irritant.					
EYES: May produce irritation. Burning or reddening of the eyes, lachrymation.					
INGESTION: May produce gastrointestinal upset.					
CARCINOGENICITY:					
NTP? No		IARC MONOGRAPHS? No		OSHA REGULATED? No	
CALIFORNIA, Prop.65? No		ESIS? No			
SECTION 3 - HAZARDOUS INGREDIENTS					
Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Alkyl silicate	<20	NR	NR	NR	NR
Notes: *Contains no hazardous ingredients as defined by OSHA 29 CFR 1910.1200. According to EC Commission Directive 67/548/EEC this product is not classified.					
SECTION 4 - FIRST AID MEASURES					
INHALATION: Remove immediately to fresh air. In case of malaise, seek medical advice.					
EYES: Flush well with water for 15min. Call a physician if symptoms persist.					
SKIN: Wash well with soap and water.					
INGESTION: Seek medical advice immediately. Give water to drink, but no milk, castor oil or alcohol. Give animal charcoal (5X10g in 100ml of water) at 20 minute intervals.					
SECTION 5 - FIRE FIGHTING MEASURES					
GENERAL HAZARDS: Combustion gasses are toxic.					
EXTINGUISHING MEDIA: Water mist, dry powder, foam, CO2.					
FIRE FIGHTING PROCEDURES: Do not use water jet. Wear SCBA and avoid inhalation of combustion gasses. Cool endangered containers with water.					
UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustion gasses are toxic.					
HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide, Carbon Dioxide. Silicon oxides.					

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Absorb with liquid binding material (sand, diatomaceous earth, inert absorbent). Do not allow release to enter sewers, water streams, earth.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid electrical discharges. Store in a cool, dry place.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	PEL ppm	PEL mg/m3
Alkyl silicate	NE	NE	NE	NE	NE	NE	NR	170

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

General, mechanical, local exhaust. NIOSH/MSA or European EN-149 approved vapor respirator required.

PROTECTIVE GLOVES:

Impervious, chemical resistant.

EYE PROTECTION:

Safety glasses if eye contact is likely.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Lab coat.

WORK / HYGIENIC PRACTICES:

Avoid contact with skin or eyes. Wash thoroughly after use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Blue paste with faint, characteristic odor.	VAPOR PRESSURE Negligible.
VOC 0 Volatility 0	SPECIFIC GRAVITY (WATER = 1) Approx.1
BOILING POINT / BOILING RANGE NA	SOLUBILITY IN WATER Negligible.
FLASH POINT >100°C	VISCOSITY NA
FLAMMABLE LIMITS LEL: NA UEL: NA	VAPOR DENSITY (AIR = 1) NR
AUTO-IGNITION TEMPERATURE NA	EVAPORATION RATE BUTYL ACETATE = 1) NA

SECTION 10 - STABILITY AND REACTIVITY

STABILITY	STABLE	X	CONDITIONS TO AVOID: Extreme heat or flames.
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INCOMPATIBILITY (MATERIALS TO AVOID):

Strong oxidizers, strong acids and bases.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Carbon Monoxide, Carbon Dioxide.

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS TO AVOID:

None related to polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
None present.	NR	Oral LD50 (Rat)=6270mg/kg.	Inhalation LC50 (Rat)=Inhalation LC50
	NR	Dermal LD50 (Rabbit)=5878mg/kg.	

SECTION 12 - ECOLOGICAL INFORMATION

No ecological data is available.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Incinerate in accordance with local, state and federal regulations. Do not introduce large amounts into water purification plants. Do not lead into waste water. Do not introduce into in-shore waters and earth.

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SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not regulated.	
DOT HAZARD CLASS / Pack Group: NA	IATA HAZARD CLASS / Pack Group: NA
REFERENCE: 49 CFR	IMDG HAZARD CLASS: NA
UN / NA IDENTIFICATION NUMBER: NA	RID/ADR Dangerous Goods Code: NA
LABEL: NA	UN TDG Class / Pack Group: NA
HAZARD SYMBOLS:	Hazard Identification Number (HIN): NA

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 - REGULATORY INFORMATION


TSCA (USA - Toxic Substance Control Act): Listed.	
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):	
Acute Health: Yes	Chronic Health: Yes
Fire: NO	Sudden Release of Pressure: NO
Reactive: NO	
313 REPORTABLE INGREDIENTS: None reportable.	
CERCLA (USA - Comprehensive Response Compensation and Liability Act):	No RQ's listed.
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:	Not listed.
CCPR (Canadian Controlled Products Regulations):	Not listed.
CIDL (Canadian Ingredient Disclosure List):	Not Listed.
CDSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):	Not Listed on CDSL.
EINECS (European Inventory of Existing Commercial Chemical Substances):	Referenced.
WGK Water Quality Index: 0	

RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:
None	According to EC Commission Directive 67/548/EEC this product is not classified.	None

SECTION 16 - OTHER INFORMATION

Legend:			
N/A = Not Applicable	N/D = Not Determined	N/E = Not Established	N/R = Not Reported
HMIS HAZARD RATINGS	HEALTH:	2	0 = INSIGNIFICANT
	FLAMMABILITY:	2	1 = SLIGHT
	PHYSICAL HAZARD:	0	2 = MODERATE
	PERSONAL PROTECTIVE EQUIPMENT:	C	3 = HIGH
			4 = EXTREME

REVISION SUMMARY:
 Revised 8/1/2011 to E.U. protocols, Supersedes all previous revisions. LB/JTV

<p>MSDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com</p>	
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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.