MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Mikrosil Catalyst Paste

PRODUCT NUMBER(S): 4-1010 (1005714) DATE: January 16, 2012

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: DATE PREPARED: January 16, 2012
Safariland LLC SUPERSEDES: August 1, 2011

ADDRESS (NUMBER, STREET, P.O. BOX) TELEPHONE NUMBER FOR INFORMATION / Customer Service

13386 International Parkway 800-347-1200

(CITY, STATE AND ZIP CODE) COUNTRY CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER

Jacksonville, FL 32218

USA

ChemTel

North America Toll Free International

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

None identified. Not considered hazardous under US, Canada, or EU regulations.

POTENTIAL HEALTH EFFECTS

INHALATION:

Not a likely route of exposure. May cause mild irritation if particles are inhaled.

SKIN:

May cause mild skin irritation, mainly with prolonged contact.

EYES:

May produce irritation with burning or reddening of the eyes, lachrymation.

INGESTION:

May produce gastrointestinal upset if swallowed.

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 stannosiloxane	<20	NR	NR	Xi	R36

Notes: Contains no hazardous ingredients as defined by OSHA 29 CFR 1910.1200. Ingredient listed is self-classified for the EU using the rules under 1907/2006/EC, 1272/2008/EC, and 453/2010/EC.

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. Prevent runoff water from fire-fighting from entering ground water.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Combustion gasses are toxic.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon Mmnoxide, Carbon dioxide. Silicon oxides, Tin oxides.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

Scrape up and discard. Soap and water may be used to rinse small quantities away. For large quantities, use clay to bind to remainder and shovel into containers. Do not discard into sewers and/or ground water.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in a cool, dry, well-ventilated place. Keep containers tightly closed and avoid humid conditions. Do not handle while eating, drinking, or smoking. Store below 77°F (25°C).

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION									
		NIOSH				ACGIH		OSHA	
HAZARDOUS COMPONENTS	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	PEL ppm	PEL mg/m3	
Alkyl stannosiloxane	NE	NE	NE	NE	NE	0.1	NR	0.1	

OSHA and ACGIH have Total Workplace Allowances of 0.1 mg/m3 (as tin) for organotin products.

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Generally not needed.

PROTECTIVE GLOVES:

Impervious, chemical resistant.

EYE PROTECTION:

Safety glasses if eye contact is likely.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

None

WORK / HYGIENIC PRACTICES:

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

SECTION 9-PHYSICAL AND CHEMICAL PROPERTIES			
APPEARANCE AN	D ODOR	VAPOR PRESSURE	
Blue paste with fa	int, characteristic odor.	<1 hPa @ 20°C / 68° F	
VOC 0	Volatility 0	SPECIFIC GRAVITY (WATER = 1)	
		Approx.1	
BOILING POINT / E	BOILING RANGE	SOLUBILITY IN WATER	
NA		Insoluble.	
FLASH POINT		VISCOSITY	
>100°C (212°F)		>80000 m.Pa.s @ 23°C / 73° F	
FLAMMABLE LIMIT	rs	VAPOR DENSITY (AIR = 1)	
LEL: NA	UEL: NA	NR	
AUTO-IGNITION TEMPERATURE		EVAPORATION RATE BUTYL ACETATE = 1)	
>300°C (572°F)		NA	
OFOTION 40 OTABUITY AND DEACTIVITY			

SECTION 10 - STABILITY AND REACTIVITY			
STABILITY	STABLE	х	CONDITIONS TO AVOID:
Extreme heat or flames.			
·			Extreme heat or flames.

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	
None present.	NR	Dermal LD50 (Rabbit)=5878mg/kg.	LC50	

SECTION 12 - ECOLOGICAL INFORMATION

Harmful to aquatic organisms; do not release into bodies of water or sewage facilities.

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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.

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: No 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.

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

SECTION 16 - OTHER INFORMATION Legend: N/D = Not Determined N/E = Not Established N/A = Not Applicable N/R = Not Reported HMIS HAZARD RATINGS HEALTH: 1 0 = INSIGNIFICANT FLAMMABILITY: 1 1 = SLIGHT PHYSICAL HAZARD: 0 2 = MODERATE PERSONAL PROTECTIVE EQUIPMENT: В 3 = HIGH 4 = EXTREME

R Phrases from Section3:

R36: Irritating to eyes.

REVISION SUMMARY:

Revised 1/16/2012; new physical and health effect data. LB

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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.