



# ST. GEORGE TECHNOLOGY, INC.

## Material Safety Data Sheet

Date Issued: September 2011

<b>1. <u>Exposure Controls/ Personal Protection</u></b>		
Trade name:	<b>Excel Formula Lab Putty Catalyst</b>	
Manufacturer/supplier:	St. George Technology, Inc. P.O. Box 2849 Wilmington, NC 28402	
Emergency Information:	InfoTrac 800-535-5053	
<b>2. <u>Composition/Information of Ingredients</u></b>		
Chemical characterization:	Solution of dibutyl-tin dilaureate and red dye in tetraethyl silicate based on a viscous paste. N/A	
Hazardous components:		
<u>CAS-Nr:</u>	<u>Name</u>	<u>R-classification</u>
78-10-4	tetraethyl silicate	10-20-36/37
77-58-7	dibutyl tin dilaureate	20-36/37
<b>3. <u>Hazards Identification</u></b>		
Risk identification:	F, R=10	
Special risks for human beings and environment:	Flammable paste, harmful by inhalation, irritation to eyes and respiratory system.	
Classification:	Classification corresponds to EEC guidelines.	
<b>4. <u>First-aid Measures</u></b>		
General Information:		
After skin contact:	Wash off with plenty of water. Removed contaminated clothing.	
After Eye Contact:	Rinse out with plenty of water. If pain persists, summon eye specialist.	
After Inhalation:	Fresh air. Consult doctor if feeling unwell.	
After swallowing:	Make victim drink plenty of water, induce vomiting. Summon doctor if feeling unwell.	
<b>5. <u>Firefighting measures</u></b>		
Extinguishing media:	Powder, foam, CO <sup>2</sup> Product is combustible and forms explosive mixtures with air at elevated temperatures. Vapors are heavier than air.	
Protective Equipment:	Self containing breathing apparatus necessary in case of larger amount of product.	



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<b>6. <u>Accidental release measures</u></b>				
Personal precautions:	Do not inhale vapors/aerosol			
Environmental precautions:				
Methods for cleaning up:	Clean up with liquid absorbent material. Forward for disposal. Clean up affected area.			
<b>7. <u>Handling and Storage</u></b>				
Handling:	Take measures to prevent electrostatic charge.			
Requirements at storerooms and Containers:	Tightly closed. Store in a well ventilated place. Keep away from sources of ignition and heat. Unsuitable working materials/container materials: various plastics, rubber.			
Requirements for storage with other products:	Avoid contact with water, strong acids, strong bases, strong oxidizing agents, alkali metals, and alkaline earth metals.			
Additional storage conditions:	Store at 15-25°C			
<b>8. <u>Exposure controls/personal protection</u></b>				
Additive information for technical plants:				
Components with limits of values to be supervised at the workplace:				
<u>CAS-Nr.</u>	<u>Name</u>	<u>art</u>	<u>value</u>	<u>unit</u>
-----	organic tin compounds	MAK	0.1	mg/m <sup>3</sup>
78-10-4	tetraethyl silicate	MAK	170	mg/m <sup>3</sup>
		or	20	ml/m <sup>3</sup>
Addition Information:				
Personal protective equipment	Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.			
General measures of protection and hygiene:				
Respiration:	Required when vapors/aerosols are generated.			
Hands:	Required			
Eyes:	Required			



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<b>9. <u>Physical and chemical properties</u></b>			
Appearance			
Form:	Paste		
Color:	Red		
Odor:	Like esters		
	<u>Value</u>	<u>Unit</u>	<u>Method</u>
Information on change in the physical state Tetraethyl silicate			
Melting point/ melting range:	-77	°C	
Boiling point/boiling range:	169	°C	
Flash point:	21	°C	
Auto-ignition temperature:	345	°C	
Danger of explosion	Lower limit:		1.3 Vol%
	Upper limit:		23.0 Vol%
Density (20°C):	1.058	g/cm <sup>3</sup>	
Vapor pressure:	<100	mbar	
Viscosity:	Pasteous consistency		
pH:	Not available		
Solubility in/miscibility with:	Soluble in ethanol		
Water:	Insoluble, decomposition; see point 10		
Contents of solvents:			
Organic solvents:	None		
Water:	None		
Contents of solids:	None		
<b>10. <u>Stability and reactivity</u></b>			
Incompatibility with other substances:	Avoid heating Water, acids, bases (decomposition of tetraethyl silicate under evaluation of ethanol), strong oxidizing agents, alkali metals, and alkaline earth metals.		
Hazardous decomposition products:	None if correctly store. But moist air causes decomposition under evaluation of ethanol.		
<b>11. <u>Toxicological Information</u></b>			
Acute toxicity:	LD <sub>50</sub> oral, rat male: 6270 mg/kg LCLo inhalation rat: 1000ppm(V)/4h		
Primary irritation:			
Skin:	Irritating		
Eye:	Irritation with danger of serious eye damage.		
Ingestion:	Irritation symptoms of mucous membranes in the mouth, pharynx, esophagus and gastro-intestinal tract. After swallowing of large amounts: tiredness, narcosis.		
Inhalation:	Irritation symptoms in the respiratory tract.		
Sensitization of product:	None observed.		
Additional toxicological information:	During the long period of use – even as catalyst paste for hardening polysiloxane impression materials of condensation curing type according recommendations for use – no health deceases are reported.		



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<b>12. <u>Ecological Information</u></b>	
General Information:	Using proper handling product causes on environmental problems. Do not allow to enter waters, waste water or soil.
Classification of water endangerment:	Product is not soluble in aqueous media; After reaction with water harmful effect on aquatic organisms. For decomposition products: WGK = 1 (slightly polluting substance)
<b>13. <u>Disposal considerations</u></b>	
Product Recommendation:	Use proper landfill disposal or incineration in accordance with local, state, and federal regulations
Unclean packaging:	Disposal in compliance with official regulations. Handle contaminated packages in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.
<b>14. <u>Transport Information:</u></b>	
<b>15. <u>Regulatory Information</u></b>	
Classification according to EEC- guidelines:	F Flammable Xn Harmful R 10 Flammable R 20 Harmful by inhalation R 36/37 Irritating to eyes and respiratory system.
Classification according to VbF:	S- phrases None Class A, Group II
<b>16. <u>Other Information</u></b>	
The above information is based on our present day knowledge and relates solely to the safely requirements of the product. The data does not signify any warranty with regards to products or properties. However users of the product should satisfy themselves that the information given is sufficient and correct for their specific circumstance of use.	