SAFETY DATA SHEET

ST. GEORGE TECHNOLOGY, INC.

Issue Date 01-Jun-2013 **Revision Date** 06-Jun-2013 **Version** 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name Excel Formula Lab Putty Catalyst

Other Means of Identification
SDS # SGT-009

UN/ID No UN1325

Recommended Use of the Chemical and Restrictions on Use
Recommended Use Fabrication of dental device.

Details of the Supplier of the Safety Data Sheet
Supplier Address
St. George Technology, Inc.
P.O. Box 2849
Wilmington, North Carolina 28402-2849

Emergency Telephone Number
Company Phone Number 910-397-0781
Fax: 910-397-0791
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Inhalation (Vapors)	Category 4
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable solids	Category 1

Signal Word
Warning

Hazard Statements
Harmful if inhaled
Causes serious eye irritation
May cause respiratory irritation. May cause drowsiness or dizziness

Flammable solids



Appearance Red paste **Physical State** Paste **Odor** Like esters

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Ground/bond container and receiving equipment
Use explosion-proof equipment
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Tetraethyl silicate	Proprietary	Proprietary
Dibutyltin dilaurate	77-58-7	Proprietary

Chemical Additions — Chemical characterization: Solution of dibutyl-tin dilaureate and red dye in tetraethyl silicate based on a viscous paste

Product contains a proprietary mixture of ingredients.

4. FIRST AID MEASURES

First Aid Measures

General Advice Provide this SDS to medical personnel for treatment.

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Remove to fresh air. Get medical attention if you feel unwell.
Ingestion	Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person. Induce vomiting, but only if victim is fully conscious. Call a POISON CENTER or doctor/physician if you feel unwell.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms	Skin: Irritating Eye: Irritation with danger of serious eye damage. Ingestion: Irritation symptoms of mucous membranes in the mouth, pharynges, esophagus and gastro-intestinal tract. After swallowing of large amounts: tiredness, narcosis. Inhalation: Irritation symptoms in the respiratory tract.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Foam, Dry Chemical, Carbon Dioxide.

Unsuitable Extinguishing Media Water.

Specific Hazards Arising from the Chemical
Forms explosive mixtures with air at elevated temperatures. Vapors are heavier than air and may spread along floors.

Sensitivity to Static Discharge Take precautionary measures against static discharge.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Wear protective clothing as described in Section 8 of this safety data sheet.

Methods and Material for Containment and Cleaning Up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Clean up with liquid absorbent material. Forward for disposal. Clean up affected area.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when handling this product. Avoid breathing vapors or mists. Use only in well-ventilated areas. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Ground all equipment to prevent buildup of static charge. Use explosion proof equipment. Take precautionary measures against static discharges.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Tightly closed. Store in a well ventilated place. Keep away from sources of ignition and heat. Store locked up. Additional storage conditions: Store at 15-25°C (59°F-77°F). Store away from incompatible materials.

Packaging Materials Unsuitable working materials/container materials: various plastics, rubber.

Incompatible Materials Water, strong acids, strong bases, strong oxidizing agents, alkali metals, and alkaline earth metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Tetraethyl silicate	TWA: 10 ppm	TWA: 100 ppm TWA: 850 mg/m³ (vacated) TWA: 10 ppm (vacated) TWA: 85 mg/m³	IDLH: 700 ppm TWA: 10 ppm TWA: 85 mg/m³
Dibutyltin dilaurate 77-58-7	STEL: 0.2 mg/m³ Sn TWA: 0.1 mg/m³ Sn S*	TWA: 0.1 mg/m³ Sn (vacated) TWA: 0.1 mg/m³ Sn (vacated) S*	IDLH: 25 mg/m³ Sn TWA: 0.1 mg/m³ except Cyhexatin Sn

Appropriate Engineering Controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Avoid contact with eyes.

Skin and Body Protection 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.

Respiratory Protection Required when vapors/aerosols are generated.

General Hygiene Considerations Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Paste		
Appearance	Red paste	**Odor**	Like esters
Color	Red	**Odor Threshold**	Not determined

Property	Values	Remarks • Method
pH	Not available	
Melting Point/Freezing Point	-77 °C / -106.6 °F	
Boiling Point/Boiling Range	169 °C / 336.2 °F	
Flash Point	21 °C / 69.8 °F	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	23.0%	
Lower Flammability Limit	1.3%	
Vapor Pressure	<100 mbar	@ 20°C (68°F)
Vapor Density	Not determined	
Relative Density (Specific Gravity)	Not determined	
Water Solubility	Insoluble in water	
Solubility in Other Solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition Temperature	345°C / 653°F	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Pasteous consistency	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
Density	1.058 g/cm3 @ 20°C (68°F)	

10. STABILITY AND REACTIVITY

Reactivity
Avoid heating.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to Avoid
Excessive heat.

Incompatible Materials
Water, strong acids, strong bases, strong oxidizing agents, alkali metals, and alkaline earth metals.

Hazardous Decomposition Products
None if correctly stored. But moist air causes decomposition under evaluation of ethanol.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact Causes serious eye irritation.

Skin Contact Prolonged contact may cause redness and irritation.

Inhalation Harmful if inhaled. May cause irritation of respiratory tract.

Ingestion Ingestion may cause irritation to mucous membranes.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Tetraethyl silicate	= 6270 mg/kg (Rat)	= 6300 µL/kg (Rabbit)	-
Dibutyltin dilaurate 77-58-7	= 175 mg/kg (Rat)	-	-

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

STOT - Single Exposure May cause respiratory irritation. May cause drowsiness or dizziness.

Numerical Measures of Toxicity
Product Information

Oral LD50 6270 mg/kg (male rat)
Inhalation LC50 1000 ppm(V)/4h

12. ECOLOGICAL INFORMATION

Ecotoxicity
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Dibutyltin dilaurate 77-58-7		2: 48 h Oryzias latipes mg/L LC50		

Persistence and Degradability
Not determined

Bioaccumulation
Not determined

Mobility
Not determined

Other Adverse Effects
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)

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal in compliance with official regulations. Handle contaminated packages in the same way as the substance itself. If not officially specified differently, noncontaminated packaging may be treated like household waste or recycled.

Chemical Name	California Hazardous Waste Status
Dibutyltin dilaurate 77-58-7	Toxic

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No UN1325
Proper Shipping Name Flammable solid, organic, n.o.s. (Tetraethyl silicate)
Hazard Class 4.1
Packing Group II

IATA

UN/ID No UN1325
Proper Shipping Name Flammable solid, organic, n.o.s. (Tetraethyl silicate)
Hazard Class 4.1
Packing Group II

IMDG

UN/ID No UN1325
Proper Shipping Name Flammable solid, organic, n.o.s. (Tetraethyl silicate)
Hazard Class 4.1
Packing Group II

15. REGULATORY INFORMATION

International Inventories

Not Determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313

Not determined

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Tetraethyl silicate	X	X	X

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	Not determined	Not determined	Not determined	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	Not determined	Not determined	Not determined	Not determined

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Disclaimer

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End of Safety Data Sheet