# SAFETY DATA SHEET

# SECTION 1. INDENTIFICATION



Great Lakes Orthodontics 200 Cooper Ave Tonawanda, NY 14150

716-871-1161 800-828-7626 CHEMTREC: 800-424-9300

Product Name:Lab Putty CatalystProduct Number:100-076Kit - 100-075

Effective Date: 9/8/14

#### SECTION 2. HAZARDOUS IDENTIFICATION

## Potential Health Effects:

#### **Primary Routes of Entry**

- Inhalation
- Eye Contact
- Skin Contact
- Inhalation
- Ingestion

#### Human Effects and Symptoms of Overexposure:

#### Eye

Causes serious eye irritation with danger of serious eye damage.

#### Skin

Prolonged contact may cause redness and irritation.

#### Inhalation

Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.

#### Ingestion

Irritation symptoms of mucous membranes in the mouth, pharynges, esophagus, and gastrointestinal tract. After swallowing of large amounts: tiredness, narcosis.

#### Carcinogenicity

No carcinogenic substances as defined by IARC, NTP and / or OSHA.

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components	CAS # Weight -	<u>%</u>
Tetraethyl Silicate	Proprietary Proprietary	7
ACGIH TLV	OSHA PEL	<u>NIOSH IDLH</u>
TWA: 10ppm	TWA: 100ppm	IDLH: 700ppm
	TWA: 850 mg/m <sup>3</sup>	TWA: 10 ppm
	(Vacated) TWA: 10 ppm	TWA: 85 mg/m <sup>3</sup>
	(Vacated) TWA: 85 mg/m	l <sup>3</sup>
<u>Hazardous Components</u>	CAS # Weight - 9	<u>%</u>
Dibutyltin Dilaureate 77-58-7 Proprietary		
ACGIH TLV	OSHA PEL	<u>NIOSH IDLH</u>
STEL: 0.2 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> Sn	IDLH: 25 mg/m <sup>3</sup> Sn
TWA: 0.1 mg/m <sup>3</sup> Sn	(vacated) TWA: 0.1 mg/m	n <sup>3</sup> Sn TWA: 0.1 mg/m <sup>3</sup> except
	S*	Cyhexatin Sn

## SECTION 4. FIRST AID MEASURES

#### **Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing if eye irritation persists. 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. Consult doctor if feeling 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 Poison Center or doctor/physician if you feel unwell.

## SECTION 5. FIRE FIGHTING MEASURES

#### Suitable Extinguishing Media

Powder, Foam, Carbon Dioxide (CO2)

#### **Special Fire Fighting Procedures**

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

#### **Unusual Fire / Explosion Hazards**

Forms explosive mixtures with air at elevated temperatures. Vapors are heavier than air and may spread along floors. Take precautionary measures against static discharge.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

#### **Spill and Leak Procedures**

Clean up with liquid absorbent material, forward for disposal. Clean up affected area.

#### SECTION 7. HANDLING & STORAGE

## 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 discharge.

#### **Storage Precautions**

Tightly closed. Store in well-ventilated place. Keep away from sources of ignition and heat. Store locked up.

#### **Further Info on Storage Conditions**

Store at 15 - 25 °C (59 - 77 °F). Store away from incompatible materials.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Industrial Hygiene

Do not eat, drink, or smoke when using this product. Ventilation Measures None. Respiratory Protection Required when vapors / aerosols are generated.

## **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.

## **Additional Protective Measures**

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.

## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Form** Paste
- Color Red
- **Odor** Like esters
- **PH** Not Applicable
- Flash Point 21 °C / 69.8 °F
- **Boiling Point** 169 °C / 336.2 °F
- **Melting Point** -77 °C / -106.6 °F
- **Lower Flammability Limit** 1.3 %
- **Upper Flammability Limit** 23.0 %
- **Vapor Pressure** < 100 @ 20 °C (68 °F)
- Vapor Density mbar
- Solubility in Other Solvents– Insoluble in water
- **Decomposition Temperature –** 345 °C / 653 °F
- **Density** (**20** °C) 1.058 g/cm<sup>3</sup> @ 20 °C (68 °F)

**Not determined:** Evaporation Rate, Relative Density, Water Solubility, Partition Coefficient, Autoignition Temperature, Kinematic Viscosity, Dynamic Viscosity, Explosive Properties, oxidizing Properties.

# SECTION 10. STABILITY & REACTIVITY

**Hazardous Reactions** – Hazardous polymerization will not occur under normal processing. **Stability** – Stable under recommended storage conditions.

**Materials to Avoid** – Water, strong acids, strong bases, strong oxidizing agents, alkali metals, and alkaline earth metals.

**Conditions to Avoid** – Avoid heating. Unsuitable working materials / container materials: various plastics, rubber.

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

## SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute oral toxicity

Tetraethyl Silicate:

• LD50: 6,270 mg/kg (Rat, Male)

Dibutyltin Dilaurate

• LD50: 175 mg/kg (Rat)

# Acute Dermal toxicity

Tetraethyl Silicate:

• LD50: 6,300 µL/kg (Rabbit)

# Acute inhalation toxicity

• LC50: 1,000 ppm (V) / 4h

# SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

## **Exotoxicity**

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

## Acute and Prolonged Toxicity to Fish

• Dibutyltin Dilaurate LC50 – 2: 48h Oryzias Latipes mg/L

## Not determined: Persistence and Degradability, Bioaccumulation, Mobility

**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).

# SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

## Waste Disposal Method

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

## SECTION 14. TRANSPORT INFORMATION (non-mandatory)

## 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

SECTION 15. REGULARTORY INFORMATION (non-mandatory)

International Inventories – Not determined SARA 313 – Not determined

## **<u>US State Regulations</u>:**

#### **US State Right-to-Know Regulations**

- NJ
- MA
- PA

## **SECTION 16. OTHER INFORMATION (non-mandatory)**

HMIS Rating: Not determined NFPA Rating: Not determined