

MATERIAL SAFETY DATA SHEET

Date of Completion June 14, 2000

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

24 – Hour Emergency Phone Number: (800) 424-9300

Product: Cream Hardener (Tube)

Product Code: CA1

Synonym / Cross Reference: Polyester Cream Hardener /
Polyester Catalyst, Benzyl Peroxide Paste

Schedule B Number: 3815.90.0000-0

Company: Foresee Orthopedic Products

693 Hi Tech Pkwy.

Oakdale, CA 95361

(209) 845-2930 – phone (209) 845-2830 – fax

2. COMPOSITION / INFORMATION ON INGREDIENTS

Benzyl Peroxide CAS # 94-36-0 47.5-50.0%

Combustible when dry:

TLV 5 mg/m*

*Refer to 29 CFR 1910.1000, subpart Z. Also see TLV for
Chemical Substances and Physical Agents in the Work
Environment (ACGIH)

3. HAZARDS IDENTIFICATION

ACCUTE HEALTH EFFECTS

Eye: May cause moderate irritation, redness, lachrymation
(tears), blurred vision, and/or swelling

Skin: Contact may cause skin irritation (itching, burning, and/or
redness).

Ingestion: May cause gastrointestinal irritation, nausea,
vomiting, and diarrhea. May be toxic.

Inhalation: May cause nasal and respiratory irritation.

CHRONIC EFFECTS

Overexposure to this material has apparently been known to cause the following effects in the lab animals: skin damage and appendages.

4. FIRST AID MEASURES

Eyes: Irrigate immediately with water for at least 15 minutes.

Skin: Wash with soap and lots of water.

Ingestion: Do not induce vomiting. Give victim a glass of water. Call a physician and/or transport to emergency facility immediately.

Inhalation: Move victim to a well-ventilated area. Make them warm, but not hot. Use oxygen or artificial respiration as needed. Consult a physician.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash Point: 184 F Seta Flash Closed Cup

FLAMMABLE LIMITS

LFL: N/E

UFL: N/E

Extinguishing Media: Carbon Dioxide, foam, dry chemical.

Protective Equipment for Fire Fighters: Wear goggles and a positive-pressure, self-contained breathing apparatus and full protective equipment. For large quantities, fight fire from a distance.

Fire Fighting Instructions: Fight like a fuel oil fire. Cool fire exposed containers with water spray.

Other Fire and Explosion Hazard.: Closed containers exposed to high temperatures, such as fire condition may rupture.

6. ACCIDENTAL RELEASE MEASURES

Action to take for Spills and Leaks: Wash and clean up small spills with water and detergent. Pick up large spills with inert absorbent and place in a container for disposal.

7. HANDLING AND STORAGE

Handling: When handling, avoid contact with eyes and skin. Harmful or fatal if swallowed!!

Storage: Do not store the product above 100 F (38 C). Store away from open flame, heat, and other sources of ignition. Do not flame, cut, braze weld or melt empty containers. Avoid contact with strong acids, alkalis, and oxidizers. Do not freeze, separation may occur upon thawing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Use adequate ventilation in volume and pattern to keep TLV/PEL below recommended levels. General mechanical ventilation is acceptable.

Respiratory Protection: When there is general room ventilation a respirator is not needed. When there is not good room ventilation use a NIOSH/MSHA approved respirator.

Skin Protection: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full body suit will depend on operation.

Protective Gloves: Use rubber gloves to prevent prolonged exposure.

Eye Protection: Use goggles or safety glasses with splashguards or side protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Decomposes
Melting Point: N/E
Vapor Pressure: N/E
Vapor Density: (Air = 1) >1
Solubility in Water: Insoluble
Specific Gravity: 1.20
Appearance: White Paste
Melting Point: N/E
Evaporation Rate: (Ethyl Ether = 1) <1
Volatiles by Weight: 10-20
VOC: Nil Grams/Liter

10. STABILITY AND REACTIVITY

Chemical Stability: Unstable

Incompatibility with other Materials: Strong acids, alkalis, oxidizers, reducing agents, mineral acids, metal salt (catalyst).

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide, Carbon and possible flammable gasses.

Movement & Partitioning: Based on information for styrene. Bioconcentration potential is low. Potential for mobility in soil is low as well.

Degradation & Transformation: Based on information for styrene. Biodegradation under aerobic static laboratory conditions is high (BOC20 or BOD28/ThOD greater than 40%). Degradation is expected in the atmospheric environment within minutes to hours.

Ecotoxicology: Based on information for styrene. Material is slightly toxic to aquatic organisms on an acute basis (LC50 between 10 and 100 mg/l in most sensitive species).

13. DISPOSAL CONSIDERATIONS

Disposal Method: Dispose in accordance with federal, state and local regulations. **DO NOT INCINERATE IN CLOSED CONTAINERS. DO NOT DUMP INTO ANY BODY OF WATER, ONTO THE GROUND, OR IN THE SEWER.**

14. TRANSPORT INFORMATION

Shipping Information: Please comply with DOT regulations in USA.

HMIS Rating:

Health: 2

Fire: 2

Reactivity: 2

Moderate

Personal Protection – See Section????

4 = Extreme

3 = High

2 =

1 = Slight

0 = Insignificant

15. REGULATORY INFORMATION

16. OTHER INFORMATION