

#### Cream Hardener

#### **Section 1 Product and Company Identification**

#### **Product identifier**

Cream Hardener For Freeman "TUF" Line Of Repair & Build-Up Materials

## Relevant identified uses of the substance or mixture and uses advised against

Polymer Reaction Catalyst – For Industrial / Professional Use Only

## Details of the supplier of the safety data sheet

Freeman Manufacturing & Supply Company 1101 Moore Road, Avon, OH 44011 USA

Telephone: (440) 934-1902

Email: contactus@freemansupply.com

24-Hour emergency telephone number: CHEMTREC (800) 424-9300

#### **Section 2 Hazard Identification**

#### **Classification of Mixture**

Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Eye Irritation, Category 2A Skin Sensitization, Category 1 Acute Aquatic Toxicity, Category 1 Organic Peroxides, Type E

## **Label Requirements**







## Warning

## **Hazard Statements**

Heating may cause a fire.

Very toxic to aquatic life.

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

## **Precautionary Statements**

**Prevention:** Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing, incompatible materials and combustible materials. Keep only in original container. Avoid breathing dust. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

**Response:** IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get medical attention.

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 attention.

**Storage:** Protect from sunlight. Store at temperatures not exceeding 25 °C/77 °F. Keep cool.

Store away from other materials.

**Disposal:** Dispose of contents and containers in accordance with local and national regulations.

### Section 3 Composition/Information on Ingredients

Ingredient	CAS Number	Weight (%)
Dibenzoyl peroxide	94-36-0	50 - 75
Zinc stearate	557-05-1	5 - 10
Calcium sulfate	7778-18-9	≤ 5



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#### **Section 4 First-Aid Measures**

#### First-aid measures

**Eye contact:** 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.

**Skin Contact:** Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Inhalation:** Call a POISON CENTER or doctor if you feel unwell.

**Ingestion:** Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

### Potential acute health effects and symptoms of overexposure

 $\textbf{Eye contact:} \ \textbf{Causes serious eye irritation.} \ \textbf{Adverse symptoms may include pain or irritation, watering, redness.}$ 

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** Causes skin irritation. May cause an allergic skin reaction. Adverse symptoms may include irritation and redness.

**Ingestion:** No known significant effects or critical hazards.

## Indication of any immediate medical attention and special treatment needed, if necessary

**Note to Physicians:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Protection of First Responders:** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### **Section 5 Fire-Fighting Measures**

## Extinguishing media

Suitable: Use an extinguishing agent suitable for the surrounding fire

**Unsuitable:** Do not use water jet as an extinguisher, as this will spread the fire.

#### Specific hazards arising from the substance or mixture

Runoff to sewer may create fire or explosion hazard. This material increases the risk of fire and may aid combustion. Heating may cause a fire. May re-ignite itself after fire is extinguished. Hazardous decomposition may occur.

## Hazardous thermal decomposition

Decomposition products may include carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, metal oxide/oxides.

### Special protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

#### **Section 6 Accidental Release Measures**

## Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors or mists. Use personal protective equipment as required.

Avoid contact with skin, eyes and clothing. Use personal protective equipment recommended in Section 8.

## **Environmental precautions**

Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

## Methods and materials for containment and cleaning up

Dispose of waste product or used containers according to local regulations. Clean contaminated surface thoroughly with detergents. Avoid solvent cleaners. Contain and collect spillage, placing waste in appropriate containers for disposal according to local regulations (see sections 13).



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## **Section 7 Handling and Storage**

## Advice on safe handling

Use personal protection recommended in Section 8. Never use pressure to empty container. Comply with the health and safety at work laws. Prevent product from entering drains. Use only with adequate ventilation. Do not breathe dust/fume/gas/vapors/spray. Keep away from clothing and other combustible materials. Keep away from heat, sparks, and open flame. When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing.

## Conditions for safe storage

Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. To avoid the risk of formation of shock-sensitive crystals or loss of stability, it is important to store the product within the recommended temperature range. Temperature control may be required. Store in segregated and approved area. Protect from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Store at temperatures not exceeding 25 °C/77 °F. Keep away from heat, sparks and open flame.

## **Section 8 Exposure Controls/Personal Protection**

## Components with workplace control parameters

Chemical Name CAS Number	ACGIH TLV	OSHA PEL	NIOSH REL
Dibenzoyl peroxide	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
94-36-0	8 hours	8 hours	10 hours
Zinc stearate	TWA: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
557-05-1	8 hours	8 hours	10 hours
	Inhalable fraction	Respirable fraction	Respirable fraction
Calcium sulfate	TWA: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
778-18-9	8 hours	8 hours	10 hours
	Inhalable fraction	Respirable fraction	Respirable fraction

#### **Appropriate Engineering Controls**

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Use with adequate ventilation.

## **Environmental Exposure Controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures, personal protective equipment (PPE)

**Eye/face protection**: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, use chemical splash goggles.

**Skin/body protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. **Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.



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#### Section 8 Exposure Controls/Personal Protection continued

**Respiratory protection**: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## **General Hygienic Practices**

Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## **Section 9 Physical and Chemical Properties**

**Appearance** White paste/solid

**Odor** Slight

Odor thresholdNo data availablepHNo data availableMelting PointNo data availableBoiling Point100°C (212°F)

**Evaporation Rate** 0.09 (butyl acetate = 1)

**Flash Point** 94°C (201.2°F) (Pensky-Marten Closed Cup)

**Flammability (solid, gas) Upper/Lower Flammability**No data available
No data available

**Vapor Pressure** 2.3 kPa (17.5 mm Hg) at 20°C

**Vapor Density** 1 (Air = 1)**Relative Density** 1.19 9.98 lb./gal **Density Water Solubility** No data available **Coefficient: n-octanol/ water** No data available **Auto-ignition temperature** No data available **Decomposition temperature** 50°C (122°F) **Explosive properties** Not explosive **Oxidizing properties** Not oxidizing **VOC Content Weight Percentage** 20% (estimated) **VOC Content** 238 g/L (estimated)

### **Section 10 Stability and Reactivity**

**Reactivity:** This product, in laboratory testing, neither detonates nor deflagrates and only shows low or no effect when heated under confinement.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include temperature increase, high temperature.

Reactions may include hazardous decomposition, risk of causing fire.

Hazardous polymerization: None under normal processing.

**Conditions to avoid:** Avoid all possible sources of ignition (spark or flame). Avoid increased storage temperature

**Incompatible materials:** Reactive or incompatible with combustible materials,

reducing materials, copper, iron, and rust.

**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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## **Section 11 Toxicological Information**

## Information on likely routes of exposure and symptoms of exposure

**Eye Contact** Causes serious eye irritation

**Skin Contact** Causes skin irritation. May cause an allergic skin reaction

InhalationNo known significant effect or critical hazardsIngestionNo known significant effect or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** Adverse symptoms may include pain or irritation, watering, redness.

**Inhalations** No specific data.

**Skin contact** Adverse symptoms may include irritation and redness.

**Ingestion** No specific data.

**Acute toxicity** 

Chemical Name	Oral LD50
Dibenzoyl peroxide	6400 mg/kg ( Rat )
Zinc stearate	10 g/kg (Rat)

#### Potential health effects from short and long-term exposure

Skin corrosion/irritationcauses skin irritationSerious eye damage/eye irritationCauses serious eye irritationSkin sensitizationMay cause an allergic skin reaction

MutagenicityNo data availableCarcinogenicityNo data availableTeratogenicityNo data available

**Specific Target Organ Toxicity** (Single Exposure) No data available **Specific Target Organ Toxicity** (Repeated Exposure) No data available

**Aspiration Hazard** No data available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

### **Section 12 Ecological Information**

#### **Toxicity**

Component	Species	Test Result
Calcium Sulfate Dihydrate	Fathead minnow	LC50 >1970 mg/L,
(CAS 7778-18-9)	(Pimephales promelas)	96 hours

Very toxic to aquatic life. Prevent product from entering drains.

This material meets the definition of a marine pollutant.

#### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

#### Mobility in soil

Partition coefficient n-octanol / water (log K<sub>ow</sub>): 3.46 (Benzoyl peroxide)

### Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.



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#### **Section 13 Disposal Considerations**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14 Transport Information**

DOT: UN/ID No.: UN3108

**Proper Shipping Name:** Organic Peroxide Type E, Solid (<52% Dibenzoyl Peroxide)

Hazard Class: 5.2

**Packing Group:** Not applicable

**Special provisions:** Emergency Response Guide Number - 145

IATA: UN/ID No.: UN3108

**Proper Shipping Name:** Organic Peroxide Type E, Solid (<52% Dibenzoyl Peroxide)

Hazard Class: 5.2

Packing Group: Not applicable Special provisions: A20, A802 IMDG: UN/ID No.: UN3108

**Proper Shipping Name:** Organic Peroxide Type E, Solid (<52% Dibenzoyl Peroxide)

Hazard Class: 5.2

**Packing Group:** Not applicable

**Special provisions:** 122. 274 EmS-no F-J, S-R

**Environmental Hazard** 

Marine pollutant: This material meets the definition of a marine pollutant. Dibenzoyl peroxide, Zinc stearate

#### **Section 15 Regulatory Information**

#### **US Federal Regulations**

Superfund Amendments and Reauthorization Act (SARA) 302 Extremely hazardous substance: Not listed.

SARA 313 TRI reporting: Benzoyl peroxide (94-36-0) 50-75%, Zinc Stearate (557-05-1) 5-10%

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.

Safe Drinking Water Act (SDWA): Not regulated.

#### **US State Regulations**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### **Inventories**

United States – Toxic Substance Control Act (TSCA): All components are listed or exempt from listing.

Canada - Domestic Substance List (DSL): All components are listed or exempt from listing.

China - Inventory of Existing Chemical Substances in China (IECSC): All components of this product comply with the inventory requirements.

Europe - European Inventory of Existing Commercial Chemical Substances (EINECS): All components of this product comply with the inventory requirements.

Europe - European List of Notified Chemical Substances (ELINCS): All components of this product comply with the inventory requirements.

Korea - Existing Chemicals List (ECL): All components of this product comply with the inventory requirements.



## **Cream Hardener**

#### **Section 16 Other Information**

**HMIS** 

Health Hazards: 3 Flammability: 0 Physical Hazards: 4

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