




Section 1 Product and Company Identification													
<p>Product identifier Product name: Freeman Cream Hardener</p> <p>Relevant identified uses of the substance or mixture and uses advised against Identified uses: For Freeman TUF Line of Repair & Build-Up Materials</p> <p>Details of the supplier of the safety data sheet Freeman Manufacturing and Supply Company 1101 Moore Road, Avon, OH 44011 Telephone (440) 934-1902</p> <p>24 Hour emergency telephone number: CHEMTREC (800) 424-9300</p>	<table border="1"> <tr> <th colspan="2">HMIS</th> </tr> <tr> <td>H</td> <td>2</td> </tr> <tr> <td>F</td> <td>1</td> </tr> <tr> <td>R</td> <td>1</td> </tr> <tr> <td colspan="2">PPE</td> </tr> <tr> <td colspan="2">Sec. 8</td> </tr> </table>	HMIS		H	2	F	1	R	1	PPE		Sec. 8	
HMIS													
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Sec. 8													
Section 2 Hazard Identification													
<p>Classification of the substance or mixture Serious eye damage/eye irritation, Category 2 Skin sensitization, Category 1 Acute aquatic toxicity, Category 1 Organic peroxides, Type E</p> <p>GHS Label elements, including precautionary statements</p> <div style="display: flex; justify-content: space-around; align-items: center;">    </div> <p>Signal word Warning</p> <p>Hazard statements Causes serious eye irritation Very toxic to aquatic life May cause an allergic skin reaction Heating may cause a fire</p> <p>Precautionary statements Prevention Avoid breathing dust/fume/gas/mist/vapours/spray Avoid release to the environment Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>Response If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Collect spillage Call a POISON CENTER or doctor if you feel unwell</p> <p>Storage Store at temperatures not exceeding 38°C / 100°F. Keep cool. Protect from sunlight. Store away from other materials.</p> <p>Disposal Dispose of contents and containers in accordance with local and national regulations.</p>													

Section 3 Composition/Information on Ingredients

Hazardous Ingredient	CAS Number	Percent
Dibenzoyl peroxide	94-36-0	50 - 60
Benzoic acid, C9-11 branched alkyl esters	131298-44-7	10 - 25
Zinc stearate	557-05-1	5 - 10

Section 4 First-Aid Measures

General advice

Get medical advice/attention if you feel unwell.

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.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically.

Section 5 Fire-Fighting Measures

Suitable extinguishing media

Dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Unsuitable extinguishing media

Strong water jet

Special hazards arising from the substance or mixture

Burning produces heavy smoke. Fire may produce irritating and/or toxic gases.

In the event of fire and/or explosion do not breathe fumes.

May cause sensitization by skin contact.

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 or clothing.

Use personal protective equipment recommended in Section 8.

Section 6 Accidental Release Measures continued

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. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Clean contaminated surface thoroughly. Clean with detergents. Avoid solvent cleaners. Take up mechanically. Collect spillage with an electrically protected vacuum cleaner or by wet-brushing. Place in appropriate labeled containers for disposal. Dispose of waste product or used containers according to applicable laws and regulations.

Section 7 Handling and Storage

Advice on safe handling

Use personal protection recommended in Section 8. Comply with the health and safety at work laws. Prevent product from entering drains. Use only with adequate ventilation. Do not breathe fumes or vapors. No smoking. Keep away from food and drink.

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 to prevent leakage. Keep container tightly closed in a dry and well-ventilated place.

Incompatible materials

Strong oxidizing agents. Acids.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Dibenzoyl peroxide 94-36-0	TWA: 5 mg/m ³	TWA: 5 mg/m ³	IDLH: 1500 mg/m ³ TWA: 5 mg/m ³
Zinc stearate 557-05-1	TWA: 10 mg/m ³	TWA: 5 mg/m ³ respirable dust TWA: 15 mg/m ³ total dust	TWA: 5 mg/m ³ respirable dust TWA: 10 mg/m ³ total dust

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear tight sealing safety goggles when handling this product.

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate to prevent skin contact.

Section 8 Exposure Controls/Personal Protection continued

Hand protection

Wear chemical-resistant, impervious gloves should be worn at all times when handling chemical products. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical / chemical damage and poor maintenance.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

General Hygienic Practices

Wash hands, forearms and face thoroughly after handling chemical products.

Do not smoke. Keep away from food and drink.

Avoid contact with skin, eyes and clothing.

Change working clothes after each work shift.

Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Section 9 Physical and Chemical Properties

Appearance	White paste
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting/ freezing point	No data available
Initial boiling point	No data available
Evaporation rate	No data available
Flash Point	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor pressure	No data available
Vapor density	No data available
Specific gravity	1.2 ± 0.05
Density	9.98 lb/gal
Water Solubility	No data available
Coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	122°F (50°C)
Percent volatile	20% estimated

Section 10 Stability and Reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Hazardous polymerization	None under normal processing.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents. Acids.
Hazardous decomposition products	Carbon monoxide and carbon dioxide.

Section 11 Toxicological Information

Information on likely routes of exposure and symptoms of exposure

Eye Contact	Causes serious eye irritation.
Skin Contact	May cause an allergic skin reaction
Inhalation	Not a primary route of entry.
Skin Absorption	Not a primary route of entry.
Ingestion	Not a primary route of entry.

Potential health effects from short and long-term exposure

Skin corrosion/irritation	Not applicable
Serious eye damage/eye irritation	Causes serious eye irritation
Skin sensitization	May cause an allergic skin reaction
Respiratory sensitization	Not applicable
Germ cell mutagenicity	Not applicable
Carcinogenicity	Not applicable
Reproductive Toxicity	Not applicable
Specific target organ toxicity (single exposure)	Not applicable
Specific target organ toxicity (repeated exposure)	Not applicable
Aspiration hazard	Not applicable

Toxicological data

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dibenzoyl peroxide	6400 mg/kg (Rat)	-	-
Benzoic acid, C9-11-branched alkyl esters	5000 mg/kg (Rat)	2000 mg/kg (Rabbit)	3.3 mg/L 4H (Rat)
Zinc stearate	10 g/kg (Rat)	2000 mg/kg (Rabbit)	-

Unknown acute toxicity

0% of the mixture consists of ingredients of unknown toxicity.

Section 12 Ecological Information

Toxicity	Very toxic to aquatic life
Environmental precautions	Prevent product from entering drains.
Marine pollutant	This material meets the definition of a marine pollutant.
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT & vPvB assessment	PBT and vPvB assessment has not been carried out

Section 13 Disposal Considerations

Contact a licensed disposal contractor for detailed recommendations. Dispose of wastes in accordance with applicable local, regional, national, and/or international laws and regulations. Contaminated packaging must be scrapped or reconditioned. Improper disposal or reuse of contaminated packaging may be dangerous and illegal.

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

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

DSL - Canadian Domestic Substance List: All components are listed or exempt from listing.

US Federal Regulations

SARA 311/312: Acute Health Hazard, Chronic Health Hazard, Reactive Hazard

SARA 313: Benzoyl Peroxide (94-36-0), Zinc Stearate (557-05-1)

Section 16 Other Information

Disclaimer

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