

Section 1 Identification

Product identifiers

Product name: Master Quick-Bild II

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

Identified uses: Polyester Repair Paste

Details of the supplier of the safety data sheet

Freeman Manufacturing and Supply Company
1101 Moore Road, Avon, OH 44011
Phone (440) 934-1902
FAX (440) 934-7200

HMIS	
H	2
F	0
R	1
PPE Sec. 8	

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

Section 2 Hazards Identification

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

Acute Toxicity, Inhalation, Category 4
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye irritation, Category 2A
Carcinogenicity, Category 2
Specific Target Organ Toxicity, single exposure (Respiratory Tract Irritation), Category 3
Specific Target Organ Toxicity, repeated exposure (Inhalation, Ears), Category 1
Specific Target Organ Toxicity, repeated exposure (Liver, Nervous System), Category 2

GHS Label elements



Signal word Danger

Hazard statements

Harmful if inhaled
Causes skin irritation.
Causes serious eye irritation.
Suspected of causing cancer.
May cause respiratory irritation.
Causes damage to organs through prolonged or repeated exposure (ears).
May cause damage to organs through prolonged or repeated exposure (liver, nervous system).

Precautionary statements

Prevention

Keep container tightly closed when not in use.
Do not breathe fumes or vapors.
Wash skin thoroughly after handling.

Section 2 Hazards Identification continued

Do not eat, drink or smoke when using this product.
Use only in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

Response

If on skin: Remove/take off immediately all contaminated clothing.
Rinse skin with water/shower.
If inhaled: Remove person to fresh air and call doctor/physician if not feeling well.
If in eyes: Rinse continuously with water for at least 15 minutes.
Remove contact lenses, if present and easy to do.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.

Storage

Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS

None known

Section 3 Composition/Information on Ingredients

Mixture

Ingredient Name	CAS Number	Concentration (%)
Talc	14807-96-6	<50
Unsaturated polyester polymer	Proprietary	<25
Styrene monomer	100-42-5	<17
Vinyltoluene	25013-15-4	<6
Silica, fumed	112945-52-5	<5

Section 4 First-Aid Measures

Description of first aid measures

If inhaled

Move the victim to a safe area as soon as possible. If feeling unwell, get medical attention.

In case of skin contact

Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. If irritation persists, seek medical attention. Wash contaminated clothing before reuse.

In case of eye contact

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Immediately get medical attention.

If swallowed

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If feeling unwell, get medical attention.

Most important symptoms and effects, both acute and delayed

See Section 2 and/or in Section 11.

Indication of any immediate medical attention and special treatment needed

See toxicological information in Section 11.

Notes to physician: Treat symptomatically.

Section 5 Fire-Fighting Measures

Suitable extinguishing media

Use dry chemical, carbon dioxide, water spray (fog), or alcohol-resistant foam.

Unsuitable extinguishing media

Do not use water jet.

Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase may occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products

During combustion, decomposition products may include: carbon dioxide, carbon monoxide, sulfur oxides, halogenated compounds, metal oxide/oxides

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. For personal protection see Section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers. Keep tightly closed.
 Dispose of via a licensed waste disposal contractor.

Section 7 Handling and Storage

Precautions for safe handling

Use normal precautions when handling flammable materials. Do not breathe fumes or vapor. Do not allow material to contact skin. Provide appropriate exhaust ventilation.

Conditions for safe storage, including any incompatibilities

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from food and drink. Eliminate all ignition sources. Segregate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Section 8 Exposure Controls/Personal Protection

Components with occupational exposure limits

Ingredient	OSHA		ACGIH	
	PEL	STEL	TWA	STEL
Talc	2 mg/m ³ (respirable fraction)	Not established	2 mg/m ³ (respirable fraction)	Not established
Styrene monomer	50 ppm	100 ppm	20 ppm	40 ppm
Vinyltoluene	100 ppm	Not established	50 ppm	100 ppm
Silica, fumed	20 million particles / ft ³	Not established	Not established	Not established

Section 8 Exposure Controls/Personal Protection continued

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. An eye wash station and safety shower should be located near the workstation.

Personal protective equipment

Eye/face protection

Use safety eyewear complying with an approved standard when a risk assessment indicates this is necessary. Vented goggles are recommended.

Hand Protection

Use disposable gloves to prevent skin contact. Contaminated gloves should be replaced.

Body Protection

Prevent skin contact when handling material.

Respiratory Protection

If elevated airborne concentrations above applicable workplace exposure levels are anticipated, use a properly fitted, air-purifying or air-fed respirator complying with an approved standard

General Hygienic Practices

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

Appearance	White paste
Odor	Styrene
Odor Threshold	0.01 to 0.10 ppm
pH	No data available
Melting Point	No data available
VOC Content	No data available
Boiling Range	145 - 168°C (293 - 334°F)
Flash Point	31 - 53°C (88 - 127°F)
Evaporation rate	< 1
Flammability (solid, gas)	No data available
Upper/lower flammability	6.1% / 1.1%
Vapor Pressure	4.3 mmHg
Vapor density	3.6
Relative density (g/cc)	1.6
Water Solubility	Insoluble
Coefficient: n-octanol/water	No data available
Auto-ignition temperature	490°C (914°F)
Viscosity	No data available
% Volatile	No data available

Section 10 Stability and Reactivity

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions

Section 10 Stability and Reactivity continued

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

Avoid all possible sources of ignition.

Incompatible materials

Oxidizing agents

Hazardous decomposition products

Thermal oxidative decomposition can produce carbon monoxide and carbon dioxide.

Section 11 Toxicological Information

Information on toxicological effects

Acute toxicity of product No data available

Acute toxicity of components

Ingredient	Result	Species	Dose	Exposure
Styrene	LD50 Oral	Rat	2,650 mg/kg	4 hours
	LC50 Inhalation	Rat	12,000 mg/m ³	
	LD50 Dermal	Rat	> 2,000 mg/kg	

Skin corrosion/irritation Moderate skin irritant

Serious eye damage/eye irritation Severe eye irritant

Respiratory or skin sensitization May cause skin sensitization

Germ cell mutagenicity No data available

Carcinogenicity

IARC Styrene is considered a class 2B suspect human carcinogen.

NTP Styrene is reasonably anticipated to be a human carcinogen.

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.

Reproductive toxicity No data available

Specific target organ toxicity

- single exposure Respiratory tract irritation

Specific target organ toxicity

- repeated exposure Ears, liver, and nervous system

Aspiration hazard No data available

Section 12 Ecological Information

Toxicity No data available

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

Results of PBT & vPvB assessment No data available

Section 13 Disposal Considerations

Use safety containers for disposal. Contact a licensed contractor for detailed recommendations. Follow applicable Federal, State, and local regulations.

Section 14 Transport Information

DOT: Not Regulated
IMDG: Not Regulated
IATA: Not Regulated


Section 15 Regulatory Information**Inventories**

United States TSCA Inventory Status: All ingredients are listed or exempted.

US Federal Regulations

RCRA Hazardous Waste Number (40 CFR 261.33): Not listed
RCRA Hazardous Waste Classification (40 CFR 261): Not classified
SARA 311/312 Codes: Chronic Health Hazard, Chronic Health Hazard
SARA 313 Toxic Chemicals (40 CFR 372.65): Styrene 100-42-5, CERCLA RQ – 1000 lb.

US State Regulations

California Proposition 65:  **WARNING:** This product can expose you to chemicals including Styrene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

State Right-to-Know Regulations: Talc, Styrene, Vinyltoluene

Section 16 Other Information**Disclaimer**

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

Section 1 Chemical Product and Company Identification

Product identifier

Product name: Freeman Cream Hardener

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

Identified uses: For Freeman TUF Line of Repair & Build-Up Materials

Details of the supplier of the safety data sheet

Freeman Manufacturing and Supply Company
1101 Moore Road, Avon, OH 44011
Telephone (440) 934-1902

HMIS

H	2
F	1
R	1

PPE
Sec. 8

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

Section 2 Hazard Identification

Classification of the substance or mixture

Organic peroxides, Type E
Serious eye damage/eye irritation, Category 2
Skin sensitization, Category 1

GHS Label elements, including precautionary statements



Signal word

Warning

Hazard statements

Heating may cause a fire
Causes serious eye irritation
May cause an allergic skin reaction

Precautionary statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep only in original container.
Keep container tightly closed when not in use.
Avoid breathing fumes or vapors.
Wash face, hands and any exposed skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Keep/Store away from clothing/ combustible materials.
Wear protective gloves/protective clothing/eye protection/face protection.

Response

Get medical advice/attention if you feel unwell.
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.

Section 2 Hazard Identification continued

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
 IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
 IF SWALLOWED: Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

Storage

Store at temperatures not exceeding 38°C / 100°F.
 Keep cool. Protect from sunlight. Store away from other materials.

Disposal

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

Hazards not otherwise classified (HNOC) or not covered by GHS

None

Section 3 Composition/Information on Ingredients

Hazardous Ingredient	CAS Number	Percent
Benzoyl Peroxide	94-36-0	25 - 50
Isodecyl benzoate	131298-44-7	10 - 25

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

Extinguishing media

Suitable extinguishing media: Dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Unsuitable extinguishing media: Strong water jet

Section 5 Fire-Fighting Measures

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.

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.

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
Benzoyl Peroxide 94-36-0	TWA: 5 mg/m3	TWA: 5 mg/m3	IDLH: 1500 mg/m3 TWA: 5 mg/m3

Section 8 Exposure Controls/Personal Protection continued

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.

Hand protection

Wear protective gloves. There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. 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

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	201°F (94°C)
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density (g/cc)	1.2 ± 0.05
Water Solubility	No data available
Coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available

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
Benzoyl Peroxide 94-36-0	7710 mg/kg (Rat)	-	-
Isodecyl benzoate 131298-44-7	-	-	-

Unknown acute toxicity

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

Section 12 Ecological Information			
Ecotoxicity			
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/IMDG/IATA			
UN/ID No.:	UN3108		
Proper Shipping Name:	Organic Peroxide, Type E, Solid Dibenzoyl Peroxide		
Hazard Class:	5.2		
Packing Group:	II		
Environmental hazard: Yes			
Marine pollutant:	This material meets the definition of a marine pollutant		
Marine pollutant:	Dibenzoyl peroxide , Zinc stearate		
Special Provisions		122, 274	A20, A802
	Emergency Response Guide	EmS-No	
	Number	F-J, S-R	
	145		
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			
No information available			
The supplier may apply one of the following exceptions: Combustible Liquid (49 CFR 173.150(f)); Consumer Commodity (49 CFR 173.150(c), ICAO/IATA SP A112); Limited Quantity (49 CFR 173.150(b), ICAO Part 3 Chapter 4, IATA 2.7, IMDG Chapter 3.4); Viscous Liquid (49 CFR 173.121(b), IMDG 2.3.2.2, IATA 3.3.3.1.1, ICAO 3.2.2, ADR 2.2.3.1.5); Does Not Sustain Combustion (49 CFR 173.120(a), IATA 3.3.1.3, ICAO 3.1.3, IMDG 2.3.1.3, ADR 2.2.3.1.1 Note 1); or others as allowed under hazardous materials/dangerous goods regulations.			

Section 15 Regulatory Information

International Inventories

TSCA - United States Toxic Substance Control Act Section 8(b) Inventory: 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 313: Benzoyl Peroxide (94-36-0) 25-50%
Zinc Stearate (557-05-1) 5-10%

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

US State Right-to-Know Regulations

California Proposition 65: This product is not known to contain any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

Other US State Right-to-Know Regulations: Benzoyl Peroxide (94-36-0), Isodecyl benzoate (131298-44-7), Zinc Stearate (557-05-1), Calcium sulfate (7778-18-9)

Section 16 Other Information

Disclaimer

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SAFETY DATA SHEET

1. Identification

Product identifier Cream Hardener

Recommended use Polymer Reaction Catalyst

Manufacturer/Importer/Supplier/Distributor information

Distributor

Company name Quality Hardener

Address PO Box 2385
18576 Krause St.
Riverview, MI 48193

Phone 1-734-285-1480

Emergency Phone Chemtrec 1-800-424-9300

2. Hazard(s) identification

Physical hazards Organic peroxides

Health hazards Serious eye damage/eye irritation

Environmental hazards Sensitization, skin

Hazardous to the aquatic environment, acute hazard

Type E
Category 2B
Category 1
Category 1

OSHA defined hazards Not classified.

Label elements



Signal word

Hazard statement

Warning

Heating may cause a fire. May cause an allergic skin reaction. Causes eye irritation. Very toxic to aquatic life.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep/Store away from clothing and other combustible materials. Keep only in original container. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/eye protection/face protection.

Response

If on skin: Wash with plenty of water. 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 advice/attention. Wash contaminated clothing before reuse. Collect spillage.

Storage

Protect from sunlight. Store at temperatures not exceeding 25°C / 77°F. Keep cool. Store away from other materials.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Benzoyl peroxide		94-36-0	50 to <60
Zinc Stearate		557-05-1	5 to <10
Calcium Sulfate Dihydrate		7778-18-9	5 to <10
Other components below reportable levels			30 to <40



4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

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

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

Heating may cause a fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage

Precautions for safe handling

When using do not smoke. Keep away from clothing and other combustible materials. Keep away from heat, sparks and open flame. Avoid contact with eyes, skin, and clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Keep only in the original container. Store away from other materials.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Benzoyl peroxide (CAS 94-36-0)	PEL	5 mg/m3	
Calcium Sulfate Dihydrate (CAS 7778-18-9)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
Zinc Stearate (CAS 557-05-1)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Benzoyl peroxide (CAS 94-36-0)	TWA	5 mg/m3	
Calcium Sulfate Dihydrate (CAS 7778-18-9)	TWA	10 mg/m3	Inhalable fraction.
Zinc Stearate (CAS 557-05-1)	TWA	10 mg/m3	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Benzoyl peroxide (CAS 94-36-0)	TWA	5 mg/m3	
Calcium Sulfate Dihydrate (CAS 7778-18-9)	TWA	5 mg/m3 10 mg/m3	Respirable. Total.
Zinc Stearate (CAS 557-05-1)	TWA	5 mg/m3 10 mg/m3	Respirable. Total.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Occupational Exposure Limits are not relevant to the current physical form of the product.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.



9. Physical and chemical properties

Appearance

Physical state	Solid.
Form	Solid. Paste.
Color	Red, White, Black, or Blue

Odor Slight.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.0002 hPa estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature 122 °F (50 °C)

Viscosity Not available.

Other information

Density 9.98 lbs/gal

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Percent volatile 20 % estimated

Specific gravity 1.2

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Sunlight. Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents. Combustible material. Aluminum. Phosphorus. Amines. Alcohols.

Hazardous decomposition products No hazardous decomposition products are known.



11. Toxicological information

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	May cause an allergic skin reaction.
Eye contact	Causes eye irritation.
Ingestion	Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause an allergic skin reaction. Dermatitis. Rash.
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Information on toxicological effects

Acute toxicity	May cause an allergic skin reaction.
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Components	Species	Test Results
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Benzoyl peroxide (CAS 94-36-0)

Acute

Oral

LD50	Rat	7710 mg/kg
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* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
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Serious eye damage/eye irritation	Causes eye irritation.
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Respiratory or skin sensitization

Respiratory sensitization	Not a respiratory sensitizer.
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Skin sensitization	May cause an allergic skin reaction.
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Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
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IARC Monographs. Overall Evaluation of Carcinogenicity

Benzoyl peroxide (CAS 94-36-0) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
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Specific target organ toxicity - single exposure	Not classified.
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Specific target organ toxicity - repeated exposure	Not classified.
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Aspiration hazard	Not an aspiration hazard.
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12. Ecological information

Ecotoxicity Very toxic to aquatic life.

Components	Species	Test Results
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Calcium Sulfate Dihydrate (CAS 7778-18-9)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) > 1970 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Benzoyl peroxide 3.46

Mobility in soil No data available.

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.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number UN3108

UN proper shipping name UN3108, ORGANIC PEROXIDE TYPE E, SOLID (<52% Dibenzoyl Peroxide)

Transport hazard class(es)

Class 5.2

Subsidiary risk -

Label(s) 9

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number UN3108

UN proper shipping name Organic peroxide type E, solid (<52% Dibenzoyl Peroxide)

Transport hazard class(es)

Class 5.2

Subsidiary risk -

Packing group Not applicable.

Environmental hazards No.

ERG Code 5L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo aircraft Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

UN number	UN3108
UN proper shipping name	ORGANIC PEROXIDE TYPE E, SOLID (<52% Dibenzoyl Peroxide), MARINE POLLUTANT
Transport hazard class(es)	
Class	5.2
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	Yes
EmS	F-J,S-R
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

DOT; IATA**IMDG****Marine pollutant****General information**

IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Zinc Stearate (CAS 557-05-1) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes
	Delayed Hazard - No
	Fire Hazard - No
	Pressure Hazard - No
	Reactivity Hazard - Yes

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	No
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SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Benzoyl peroxide	94-36-0	50 to <60
Zinc Stearate	557-05-1	5 to <10



Other federal regulations

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

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

Benzoyl peroxide (CAS 94-36-0)

Calcium Sulfate Dihydrate (CAS 7778-18-9)

Zinc Stearate (CAS 557-05-1)

US. New Jersey Worker and Community Right-to-Know Act

Benzoyl peroxide (CAS 94-36-0)

Calcium Sulfate Dihydrate (CAS 7778-18-9)

Zinc Stearate (CAS 557-05-1)

US. Pennsylvania Worker and Community Right-to-Know Law

Benzoyl peroxide (CAS 94-36-0)

Calcium Sulfate Dihydrate (CAS 7778-18-9)

Zinc Stearate (CAS 557-05-1)

US. Rhode Island RTK

Benzoyl peroxide (CAS 94-36-0)

Zinc Stearate (CAS 557-05-1)

US. California Proposition 65

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.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	09/26/2017
Version #	01
HMIS® ratings	Health: 2 Flammability: 0 Physical hazard: 2 Personal protection: D
NFPA ratings	Health: 2 Flammability: 0 Instability: 2



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