

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

PRODUCT NAME: Peroxide Cream Hardener

CHEMICAL NAME: Organic Peroxide, 35% in inert fillers

MANUFACTURER: QUALITY HARDENER

PO BOX 2385

RIVERVIEW MI 48192

INFORMATION PHONE: (248) 588-2270

EMERGENCY PHONE: (703) 527-3887(Call Collect)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Materials Information System (United States)

Health	2
Flammability	2
Physical Hazard	2

Hazard Codes: *=Chronic Hazard 0=Minimal Hazard, 1=Slight Hazard, 2=Moderate Hazard, 3=Serious Hazard, 4=Severe Hazard

Material Composition

Component	CAS.NO	EINECS/ELINCS No.	Percent
Dibenzoyl Peroxide	94-36-0	Not Available	34-35%
PLASTICIZER (Proprietary, Ester based, non-Pthalate)	800951-5002-p	Not Available	27-30%
CALCIUM CARBONATE	471-34-1	207-439-9	15-19%
WATER	7732-18-5	Not Available	10-13%
SURFACTANT (Proprietary, Ethoxylated Alkyl Phenol)	800951-5003-P	Not Available	1-4%
Fumed Silica	7631-86-9	Not Available	0-4%

Hazardous Materials are listed if present in concentrations of 1.0% or higher. Materials posing a possible Chronic Health Risk are listed at concentrations of 0.1% or higher. Materials listed in section 2 are not necessarily hazardous. See section 8-Exposure Controls/Personal Protection, and section 11-Toxicological Information for complete hazard/exposure limit information

3. HAZARDS IDENTIFICATION

****Emergency Overview****

Emergency Overview: Danger! Strong oxidizer. Contact with other material may cause fire. Extremely explosive-sensitive to shock, heat and friction. Extremely flammable. Unstable at elevated temperatures. Harmful if swallowed or inhaled. Allergen. exposure may produce allergic response. Causes irritation to skin, eyes and respiratory tract.

EC Classification(s): Xi-Irritant; N-Harmful to the Environment

EC Risk Phrases: R21/22: Harmful in contact with skin and if swallowed

R43: May cause sensitization with skin contact

R36/38: Irritating to eyes and skin

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

(See Section 15-REGULATORY INFORMATION for complete text of risk phrases.)

Hazard Statements

Potential Health Effects:

Eyes; Vapor or mist causes eye irritation. Splashes cause severe irritation with stinging pain and tears.

Skin; Causes irritation with redness and pain, and skin sensitization in some individuals. Stinging or burning sensation may occur for a brief time after application to skin.

Ingestion; Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea.

Inhalation; Decomposition products are toxic and inhalation of the products can produce life threatening health effects.

4. FIRST AID MEASURES

First Aid: Eyes; Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

First Aid: Skin; Immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Get medical

attention. Wash clothing before reuse.

First Aid: Ingestion: Do not induce vomiting, get medical attention immediately.

First Aid: Inhalation: Remove to fresh air. Get medical for any breathing difficulty.

5. FIRE FIGHTING PRECAUTIONS

Extinguishing Media:

Dry Chemical or carbon dioxide. Water to cool containers. Water or foam may cause frothing

Fire Fighting Equipment/Instructions: Wear full protective clothing and NIOSH- approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Containment Procedures: Contain discharged material

Clean-Up Procedures: Remove all sources of ignition, ventilate area of leak or spill. Spill can be mixed with water wetted vermiculite, swept up and then placed into appropriate plastic containers for immediate disposal.

Evacuation Procedures: NA

Special Procedures: NA

7. HANDLING AND STORAGE

Handling Procedures: Avoid strong acids, strong alkalis, polymerization accelerators (Cobalt Napthanates, DMA, DEA).

Storage Procedures: Stores best below 80°F, shelf life 1 year.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hazardous Component Control Parameters –

Component	CAS. No.	EINECS	Percent	Exposure Limits	Source
Dibenzoyl Peroxide	94-36-0	Not Available	35%	5mg/m ³ PEL 5mg/m ³ TLV	OSHA ACGIH

-No Further Data Available-

EYE PROTECTION

Chemical safety glasses. A full-face shield and vapor respirator is recommended for operations involving spraying or other operations placing this material under pressurized conditions.

HAND PROTECTION

Neoprene rubber gloves. Impermeable gloves. Nitrile rubber gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.

RESPIRATORY PROTECTION

Not required under normal conditions and in a well-ventilated workplace. At elevated temperatures, a cartridge mask National Institute for Occupational Safety and Health (NIOSH) approved for organic vapors may be appropriate

PROTECTIVE CLOTHING

Long sleeved clothing.

ENGINEERING CONTROLS

No specific controls needed.

WORK AND HYGIENIC PRACTICES

Provide readily accessible eye wash stations and safety showers. Wash at the end of each work shift and before eating, smoking or using the toilet.

NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as the instructions/specifications provided by the glove supplier.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Thixotropic Paste
Color:	White, Red, Black
Odor:	Ester-type odor
Specific gravity :	1.30 – 1.33
Vapor pressure:	Not Determined
Boiling point/range :	(Dibenzoyl Peroxide) Decomposes explosively above 55°C
Freezing point/range :	Not Determined
Water solubility :	Not Determined
pH :	Not Determined
Flash point :	Not Determined
Flammability-LFL :	Not Determined
Flammability-UFL :	Not Determined

VOC Content: 0 g/L (0%)

10. STABILITY AND REACTIVITY**Chemical Stability:** Stable**Chemical Stability: Conditions to Avoid:** excessive heat; contaminates; ignition sources**Incompatibility:** Strong acids, accelerators**Hazardous Decomposition:** Flammable**Hazardous Polymerization:** Will occur**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

This finished product has not been tested to determine individual toxicological/ecological limits. Individual components of this mixture have been independently tested by the raw material manufacturers and any known results have been presented below. The results for the individual components may not be representative of the toxicity of this finished product.

Ingredient Name	CAS No.	%	Test	Result	Route	Species
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-No Further Data Available-

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SENSITIZATION

Respiratory: May cause allergic respiratory reaction.

Skin: May cause allergic skin reaction.

SIGNS AND SYMPTOMS OF EXPOSURE

Depending on the intensity and duration of exposure, effects may vary from mild irritation to severe destruction of tissue.

CHRONIC EXPOSURE - CARCINOGEN

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

CHRONIC EXPOSURE - MUTAGEN

Result: Laboratory experiments have shown mutagenic effects.

12. ECOLOGICAL INFORMATION**Ecotoxicity:** 96 hr LC₅₀ guppy (semi-static): 2.0 mg/L, moderately toxic.**Environmental Fate:** Almost 60% biodegradation was reached after 28 days in the closed bottle ready biodegradability test.**13. DISPOSAL CONSIDERATIONS****Disposal**

Preferred method of disposal includes incineration under controlled conditions in accordance with all local and national laws and regulations. The generation of waste should be avoided or minimized wherever possible. Untreated material is not suitable for disposal. Waste, even small quantities, should never be poured down drains, sewers or watercourses. Waste must be disposed of in accordance with federal, state and local environmental control regulations. This material, when properly mixed and cured with its resin component at the proper mix ratio, may be safely landfilled.

Contaminated packaging

Empty containers can only be disposed of when the remaining product adhering to the container walls has been removed.

Hazard warning labels should be removed from the container only after it has been properly emptied.

14. TRANSPORT INFORMATION**Land**

Proper Shipping Name: Organic Peroxide Type E, Solid (35% Dibenzoyl Peroxide)

UN Number: UN-3108

Hazard Class: 5.2

Packaging Group: II

Air/Sea/Rail

Proper Shipping Name: Organic Peroxide Type E, Solid (35% DiBenzoyl Peroxide)
 UN Number: UN-3108
 Hazard Class: 5.2

Special Notation: The following must be typed on Dangerous Goods paperwork: THE PACKAGE CONTAINING UN3108 MUST BE SHADED FROM DIRECT SUNLIGHT, STORED AWAY FROM ALL SOURCES OF HEAT, IN A WELL VENTILATED AREA.

15. REGULATORY INFORMATION**US FEDERAL REGULATIONS****TOXIC SUBSTANCES CONTROL ACT (TSCA)-**

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

TOXIC SUBSTANCE CONTROL ACT (TSCA) 12(b) COMPONENT(S)

None

OSHA Hazard Communication Standard (29CFR1910.1200) hazard class(es)

Irritant. Sensitizer.

EPA SARA Title III Section 312 (40CFR370) hazard class

Immediate Health Hazard. Delayed Health Hazard.

EPA SARA Title III Section 313 (40CFR372) toxic chemicals above "de minimis" level are:

Dibenzoyl Peroxide, 35% (CAS#94-36-0)

STATE REGULATIONS

PROPOSITION 65 SUBSTANCES (component(s) known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986")

None

CANADA**DSL**

Included on Inventory.

WHMIS HAZARD CLASSIFICATION

Class C Division 2B

HAZARDOUS PRODUCTS ACT INFORMATION:

This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

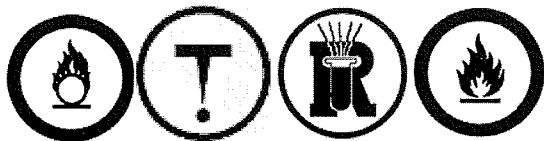
NONE

WHMIS TRADE SECRET REGISTRY NUMBER(S)

NONE

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

None

WHMIS SYMBOLS**EUROPEAN ECONOMIC COMMUNITY (EEC)****EINECS/ELINCS MASTER INVENTORY**

Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.

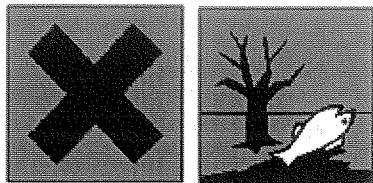
EINECS Status:

All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) in Compliance with Council Directive 67/548/EEC and its amendments. CHIP3 Regulations have been applied and meets all requirements.

Hazard symbol(s):

Xi

N



EU Labeling Classification: Xi-Irritant; N-Harmful to the Environment

Risk Phrases: R21/22: Harmful in contact with skin and if swallowed
R43: May cause sensitization with skin contact
R36/38: Irritating to eyes and skin
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Phrases: S24: Avoid contact with skin.
S28: After contact with skin, wash immediately with plenty of water and soap
S37/39: Wear suitable gloves and eye/face protection.
S61: Avoid release to the environment. Refer to special instructions/Safety data sheet.

16. OTHER INFORMATION

No Other Information

To the best of our knowledge, the information contained herein is accurate. Final determination of the suitability of any material is the sole responsibility of the users. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.
