

MATERIAL SAFETY DATA SHEET

Date Revised: June 1, 2016
Blue Cream Hardener

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MSDS Number: 100340

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: Blue Cream Hardener
Product Numbers: Part No. 1991 and 1992 – Polyester Resin Kits
Part No. 4053
Product Use: Polymerization initiator

Company

Rust Check Corporation
6175 Danville Road
Mississauga, Ontario
Canada L5T 2H7
Phone: 905-670-5411

Emergency Telephone Numbers:

CANUTEC: 1-613-996-6666

Prepared By: Regulatory Department

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	EINECS Number	% (by weight)
Benzoyl Peroxide	94-36-0	202-327-6	45 – 50
Plasticizer, non-phthalate	Proprietary	Proprietary	25 – 30
Water	7732-18-5	231-791-2	15 – 20
Silica, amorphous	7631-86-9	231-545-4	0 – 2
Calcium Carbonate	1317-65-3	215-279-6	0 – 2
Pigments	Various	Various	0 – 2

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING! CAUSES EYE AND SKIN IRRITATION. HARMFUL IF SWALLOWED. OXIDIZER.

Potential Health Effects

Acute Effects (Short Term):

Eye: Contact with paste may result in irritation, redness, tearing, and blurred vision.

Skin: May cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns.

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Swallowing: Ingestion of this material may cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Aspiration of this material into the lungs due to vomiting may produce chemical pneumonitis which can be fatal. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

Inhalation: Not expected to be an inhalation hazard.

Chronic Effects of Overexposure (Long Term):

Benzoyl Peroxide: Repeated or prolonged contact may cause skin sensitization. Overexposure to this material has been known to cause the following effects in lab animals: skin damage. Benzoyl Peroxide has caused tumorigenic effects in laboratory animals.

Cancer Information: This product does not contain any substance, which is listed as a carcinogen by NTP, IARC or OSHA in quantities greater than 0.1%.

Primary Route(s) of Entry: Inhalation, Skin contact, Eye contact, Ingestion, Skin absorption.

SECTION 4. FIRST AID MEASURES

- Eyes:** Flush eyes gently with water for at least 15 minutes. Seek medical attention.
- Skin:** Immediately remove contaminated clothing. Wash exposed area with soap and water. Seek medical attention. Launder clothing before reuse.
- Swallowing:** Consult a physician or poison control center immediately. DO NOT INDUCE VOMITING. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. If possible, do not leave individual unattended.
- Inhalation:** If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, oxygen may be beneficial if administered by trained personnel.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: 184 °F (84 °C)

Explosive Limit: Lower: N/D Upper: N/D

Autoignition Temperature: Not Determined

OSHA Flammability Class: Combustible Liquid – Class IIIA

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Hazardous Products of Combustion: May form toxic and corrosive gases: carbon dioxide, carbon monoxide, benzoic acid and various hydrocarbons.

Fire and Explosion Hazards: Fire hazard increases when material becomes dry. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

Extinguishing Media: Regular foam, carbon dioxide, dry chemical.

Fire Fighting Instructions: Fight fire like a fuel oil fire. Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus NIOSH approved with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

NFPA Rating: Health - 2, Flammability - 2, Reactivity - 2

SECTION 6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Ventilate the area. Wear proper protective equipment (Section 8). Avoid breathing vapors. Collect with an inert absorbant and dispose of properly.

SECTION 7. HANDLING AND STORAGE

Handling: All hazard precautions given in the data sheet must be observed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only with adequate ventilation. Do not breathe vapors or spray mist. Do not take internally. Close container after each use. **Keep out of reach of children.**

Storage: Store material in a cool, well-ventilated area. For maximum product quality, avoid prolonged storage at temperatures above 75°F (25°C). To prevent possible decomposition, temperatures in the storage facility must not exceed 217°F (103°C). Do not use or store near heat, sparks, or open flame. Keep container tightly closed. Avoid contact with incompatible materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are recommended.

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Skin Protection: Protective gloves and proper clothing should be worn to prevent skin contact. Gloves should be made of neoprene or natural rubber. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory Protection: Use a NIOSH approved respirator designed to remove particulate matter and organic solvent vapors.

Engineering Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below acceptable limits. Explosion-proof ventilation system is acceptable.

Exposure Guidelines:

Hazardous Ingredients	CAS Number	OSHA PEL/TWA	ACGIH TLV
Benzoyl Peroxide	94-36-0	5 mg/m ³	5 mg/m ³
Calcium Carbonate	1317-65-3	15 mg/m ³	10 mg/m ³
Silica, amorphous	7631-86-9	20 mppcf	N/E

Mppcf- millions of particles per cubic foot of air

N/E-Not Established

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Decomposes explosively	Vapor Density:	Heavier than air.
Specific Gravity / Density:	1.2/ 10.0 lbs/gal	Percent Volatiles by weight:	10-20%
Evaporation Rate:	Slower than ethyl ether.	Physical State:	Paste
Melting Point:	217 °F / 103 °C (decomposes)	pH:	Neutral
Odor:	Slight ester odor.	Solubility:	Slightly in water.
Vapor Pressure:	<1 mmHg @ 68 °F / 20 °C	Appearance:	Red, White, or Blue Paste
Octanol/Water Partition Coefficient:	Unknown	VOC* (as packaged-less exempts and water):	0 lbs/gal or 0 g/L
VHAP Content by weight – as packaged:	0%		

*NOTE: This material is used as a catalyst with a variety of products, refer to the other MSDS for additional VOC information for the mixture.

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SECTION 10. STABILITY AND REACTIVITY

Hazardous Polymerization: Product will not undergo polymerization under normal conditions of use.

Hazardous Decomposition: May form toxic and corrosive gases: carbon dioxide, carbon monoxide, benzoic acid and various hydrocarbons.

Chemical Stability: Stable under normal handling conditions.

Incompatibility: Avoid contact in uncontrolled conditions with: organic materials, inorganic acids, strong oxidizing agents, accelerators, reducing materials, alcohols, amines and strong bases.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Data:

Ingredient	CAS #	LD ₅₀ Oral-Rat	LC ₅₀ Inhalation-Rat
Benzoyl Peroxide	94-36-0	7,710 mg/kg	N/E
Calcium Carbonate	1317-65-3	6,450 mg/kg	N/E

Carcinogenicity: See Cancer Information, Section 3.

Mutagenicity: No significant evidence found.

Teratogenicity: No significant evidence found.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: The ecological toxicity of this product is not known.

SECTION 13. DISPOSAL CONSIDERATION

RCRA Hazardous Waste: This material as supplied, if discarded, would be regulated as a hazardous waste under RCRA (40 CFR 261). Dispose of in accordance with applicable federal, state, and local regulations. Incineration is the preferred method for disposal. DO NOT incinerate in closed containers.

RCRA Hazard Class: This material would be regulated as EPA Hazardous Waste Number D001 based on the characteristic of ignitability (oxidizer).

SECTION 14. TRANSPORT INFORMATION

DOT Description: The DOT Classification for shipping is dependant on quantity, type of packaging (a kit may include other components), or method of shipment.

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SECTION 15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (USA) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a)

None

SARA Title III: Section 302- Extremely Hazardous Substances

None

SARA Title III: Section 313- Toxic Chemical List

<u>Component</u>	<u>CAS Number</u>	<u>Percentage</u>
Benzoyl Peroxide	94-36-0	45-50%

EPA Hazardous Air Pollutants (HAPS) 40 CFR 63

None

International Regulations

EINECS (Europe) The intentional ingredients of this product are listed.

DSL (Canada) The intentional ingredients of this product are listed.

WHMIS Classification

Health Hazard: D2B, C, F (Toxic Effects, Oxidizer,
Dangerously Reactive Materials)

Physical Hazard: B3 (Combustible)

State and Local Regulations

California Proposition 65:

This product contains the following chemical(s) known to the state of California to cause cancer. NONE

This product contains the following chemical(s) known to the state of California to cause birth defects or reproductive harm. NONE

SECTION 16. OTHER INFORMATION

HMIS Rating: Health - 2, Flammability - 2, Reactivity - 2
Key- 0=Least, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme, *=Chronic Effects

Other Precautions for Use: DO NOT return unused material to the original container. DO NOT contaminate product with foreign materials, it may cause hazardous decomposition. DO NOT add to hot material. This product must be mixed with other components prior to use. Please refer to the Material Safety Data Sheet for all components before using.

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. **This MSDS is valid for three years.**

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