



MATERIAL SAFETY DATA SHEET

BENOX[®] B-50 521 RED

Syrgis Performance
Initiators, Inc.
Helena, AR

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND THE COMPANY

PRODUCT NAME	BENOX [®] B-50 521 Red	TELEPHONE	870-572-2935
MANUFACTURER	Syrgis Performance Initiators, Inc.	CHEMTREC (24hr) (USA)	800-424-9300
ADDRESS	334 Phillips 311 Rd., Helena, AR 72342	(Maritime/International)	703-527-3887
CHEMICAL NAME	Benzoyl Peroxide/Ester/Water Emulsion	CAS NO.	See Section 2
CHEMICAL FAMILY	Diacyl Peroxide	CHEMICAL FORMULA	(C ₆ H ₅ CO) ₂ O ₂

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	%
Benzoyl Peroxide	94-36-0	49 - 50
Water	7732-18-5	20 - 21
C ₉₋₁₁ -branched alkyl benzoate	131298-44-7	14 - 15
Zinc Stearate	557-05-1	4 - 6
Calcium Sulfate Dihydrate	7778-18-9	3 - 5
Nonionic Surfactant	9038-95-3	3 - 4
C.I. Pigment Red 144	5280-78-4	1 - 2

SECTION 3 - HAZARD IDENTIFICATION OF THE PREPARATION

PHYSICAL HAZARDS	Organic Peroxide. Decomposition.
HEALTH HAZARDS	Irritant.
EXPOSURE LIMITS	OSHA PEL and ACGIH TWA are 5 mg/m ³ for Benzoyl Peroxide.
ROUTES OF EXPOSURE	
Skin Absorption	May cause irritation and redness of the skin.
Eye Contact	Eye contact may cause inflammation.
Ingestion	Poison by ingestion. May cause human systemic eye effects by ingestion: hallucinations distorted perceptions, nausea or vomiting and kidney, ureter or bladder changes.
Inhalation	Not expected to be an inhalation hazard.
EFFECTS OF OVER-EXPOSURE	May cause dermatitis, asthmatic effects, testicular atrophy, and vasodilation. Mutation data reported.

SECTION 4 - FIRST-AID MEASURES

Skin	Immediately remove any contaminated clothing. Wash contaminated area thoroughly with soap and copious amounts of water for at least 15 minutes. If irritation or adverse symptoms develop, seek medical attention.
Eyes	Remove any contact lenses at once. Flush eyes with water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. If irritation or adverse symptoms develop, seek medical attention.
Ingestion	Contact a physician, hospital or Poison Control Center at once. DO NOT INDUCE VOMITING.
Inhalation	Remove to fresh air, if coughing, breathing becomes labored, irritation develops or other symptoms develop, seek medical attention at once, even if symptoms develop several hours after the exposure.

SECTION 5 - FIRE-FIGHTING MEASURES

FLASH POINT	Not applicable.
FLAMMABLE LIMITS	Not applicable.
AUTOIGNITION POINT	Not applicable.
FIRE EXTINGUISHER MEDIA	Water from a safe distance - preferably with a fog nozzle. In case of very small fires, other means such as carbon dioxide, foam or dry chemical extinguishers may be effective.
SPECIAL FIRE FIGHTING PROCEDURES	Fireman should be equipped with full protective clothing and SCBA's. In case of fire near storage area, cool the containers with water spray.
UNUSUAL FIRE AND EXPLOSION HAZARDS	Part of the oxygen for combustion is supplied by the peroxide itself. Fire hazard increases when material becomes dry.

BENOX[®] B-50 521 RED**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN EVENT OF SPILL OR RELEASE	Spilled material not immediately cleaned up may increase the fire hazard due to evaporation of water away from the benzoyl peroxide. Transfer material into a clean DOT approved container for proper disposal. Spilled material not immediately cleaned up should be wetted with water prior to transfer into disposal container. Dike to prevent runoff from entering drains, sewers, streams, etc. Wear necessary PPE as indicated by Section 8. Be sure to following all instructions in Section 7 when storing spilled material.
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SECTION 7 - HANDLING AND STORAGE

HANDLING	Rotate stock using the oldest material first. Keep containers tightly closed when not in use. Reseal containers immediately after use to prevent contamination and drying <u>DO NOT USE NEAR FOOD OR DRINK</u> . Avoid skin and eye contact. Wear personal protection equipment recommended in section 8. Wash thoroughly after handling.
STORAGE	Keep material in its original container away from any incompatible materials, direct sunlight or other sources of heat. Store in an isolated, cool and well-ventilated area and remove only as needed. Keep material sealed to prevent contamination and drying. <u>DO NOT STORE WITH FOOD OR DRINK</u> . Refer to NFPA 432 Code for the Storage of Organic Peroxide Formulations from the National Fire Protection Association for additional storage information.
OTHER PRECAUTIONS	Avoid any conditions that may cause contamination and drying. Do not leave material uncovered. Containers of this material may be hazardous when empty since they retain product residues, observe all warnings and precautions listed. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

VENTILATION	No special ventilation required.
RESPIRATORY PROTECTION	None
EYE PROTECTION	Safety goggles recommended.
HAND PROTECTION	Protective gloves recommended, solvent resistant, such as butyl rubber, nitrile or neoprene.
OTHER	Safety shower and eyewash recommended when there is a risk of exposure.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Pink paste with slight ester odor.	
BOILING POINT:	Decomposes.	SPECIFIC GRAVITY: 1.2 at 25°C.
VAPOR PRESSURE:	Not applicable.	FLASH POINT: Not applicable.
VAPOR DENSITY:	Not applicable.	FLAMMABLE LIMITS: Not applicable.
EVAPORATION RATE:	Not applicable.	SADT: >50°C.
% VOLATILE BY VOLUME:	Not applicable.	pH: Not applicable.
SOLUBILITY IN WATER:	Negligible.	

SECTION 10 - STABILITY AND REACTIVITY

STABILITY	Stable unless exposed to heat, flames, drying conditions and contamination from incompatible materials.
MATERIALS TO AVOID	Dimethylaniline, cobalt naphthenate and other promoters, accelerators, reducing agents, or any hot material.
CONDITIONS TO AVOID	Contamination. Water loss (drying). Direct sunlight. Open flame. Prolonged storage above 100°F (38°C). Storage above SADT. Storage near flammable or combustible materials.
HAZARDOUS DECOMPOSITION PRODUCTS	Decomposition products are potentially flammable. Dense white smoke of benzoic acid; phenyl benzoate; terphenyls; biphenyls; benzene and carbon dioxide.
HAZARDOUS POLYMERIZATION	Will not occur.

BENOX[®] B-50 521 RED**SECTION 11 - TOXICOLOGICAL INFORMATION****Benzoyl Peroxide****Hazard Data:****Intraperitoneal:** Mouse--LD₅₀: 250 mg/kg.**Oral:** Rat--LD₅₀: 7710 mg/kg; Mouse-- LD₅₀: 5700 mg/kg.**Skin:** Mammal (unspecified)--LD₅₀: >1 gm/kg.**C₉₋₁₁ Branched Alkyl Benzoate****Hazard Data:****Oral:** Rat--LD₅₀: > 5000 mg/kg.**Zinc Stearate****Hazard Data:****Inhalation:** Mammal (species unspecified)--LC: >1241 mg/m³/4H.**Intraperitoneal:** Mouse--LD₅₀: 354 mg/kg.**Oral:** Rat and Mouse--LD₅₀: >10 gm/kg.**Calcium Sulfate Dihydrate****Hazard Data:****Inhalation:** Human-TC_{Lo}: 194 gm/m³/10Y-I.**Nonionic Surfactant****Hazard Data:****Oral:** Rat--LD₅₀: 12300 µL/kg.**Skin:** Rabbit--LD₅₀: >20 mL/kg.**C.I. Pigment Red 144****Hazard Data:****Oral:** Rat--LD₅₀: >5000 mg/kg. (similar compounds)**SECTION 12 - ECOLOGICAL INFORMATION**

No data is available on the preparation itself. The product should be prevented from entering drains, sewers, streams, etc.

SECTION 13 - DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved facility. Processing, use, or contamination of this product may change the waste management options.

Immediately dispose of waste material at a RCRA approved hazardous waste management facility in accordance with federal, state and local regulations.

SECTION 14 - TRANSPORT INFORMATION**DOMESTIC****DOT Competent Authority Approval:****OP-9210025**

NON REGULATED BY DOT

NO DOT LABEL REQUIRED

EXPORT**DOT Shipping Name:**ORGANIC PEROXIDE TYPE E, SOLID
(DIBENZOYL PEROXIDE, 50%)**DOT Hazard Class:**

5.2

UN/NA ID No.:

UN3108

DOT Packing Group:

PG II

Labels:

5.2 (Organic Peroxide)

2004 ERG GUIDE NO.:

145

SECTION 15 - REGULATORY INFORMATION

The following chemicals are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Percent</u>
Benzoyl Peroxide	94-36-0	49-50

Canadian Domestic Substances List (DSL)

The ingredients in this product are listed in the Canadian DSL Inventory.

Chinese Inventory of Existing Chemical Substances Manufactured or Imported in China (IECSC)

The ingredients in this product are listed in the Chinese IECSC Inventory.

BENOX[®] B-50 521 RED**Korean Existing Chemicals List (ECL)**

The ingredients in this product are listed in the Korean ECL Inventory.

US Toxic Substances Control Act (TSCA)

The ingredients in this product are listed in the US TSCA Inventory.

Status of Carcinogenicity

Not recognized as a carcinogen by the IARC, NTP or OSHA.

SECTION 16 - OTHER INFORMATION**NFPA 432 Organic Peroxide Classification**

Class IV

NFPA 704 Rating

<u>Health</u>	<u>Flammability</u>	<u>Reactivity</u>
1	2	2

HMIS Rating

<u>Health</u>	<u>Flammability</u>	<u>Reactivity</u>
1	2	1

MSDS Reference: B-50 521 Red MSDS 0709

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