



MATERIAL SAFETY DATA SHEET

BENOX[®] B-55 108 WHITE

Syrgis Performance
Initiators, Inc.
Helena, AR

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND THE COMPANY

PRODUCT NAME	BENOX[®] B-55 108 White	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

<u>COMPONENTS</u>	<u>CAS NO.</u>	<u>%</u>
Benzoyl Peroxide	94-36-0	54 - 56
C ₉₋₁₁ -branched alkyl benzoate	131298-44-7	17 - 19
Water	7732-18-5	15 - 17
Zinc Stearate	557-05-1	4 - 6
Nonionic Surfactant	9038-95-3	3 - 5

SECTION 3 - HAZARD IDENTIFICATION OF THE PREPARATION

PHYSICAL HAZARDS	Organic Peroxide. Decomposition
HEALTH HAZARDS	Irritant
EXPOSURE LIMITS	Both 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
EXTINGUISHING 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 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-55 108 WHITE**SECTION 6 - ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN EVENT OF SPILL OR RELEASE**

Material left uncovered could increase the fire hazard due to evaporation of water and leaching of plasticizer away from the benzoyl peroxide. Keep material from entering drains, sewers, and streams, etc. Transfer spilt materials into containers. Clean up residue or small spills immediately and transfer to a clean DOT approved container.

SECTION 7 - HANDLING AND STORAGE**HANDLING**

Keep containers tightly closed when not in use. Rotate stock using the oldest material first. **DO NOT USE NEAR FOOD OR DRINK.** Avoid skin and eye contact. Wear personal protection equipment recommended in section 8. Reseal containers immediately after use to prevent contamination and drying.

STORAGE

Keep material in its original container away from any incompatible materials, direct sunlight or other sources of heat. **DO NOT STORE WITH FOOD OR DRINK.** Store in an isolated, cool and well-ventilated area and remove only as needed. Keep material sealed to prevent contamination and drying.

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

None

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE AND ODOR:**

White 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:

≥60°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

Prevent product contamination. Storage at or near SADT.

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-55 108 WHITE**SECTION 11 - TOXICOLOGICAL INFORMATION****Benzoyl Peroxide****Hazard Data:****Intraperitoneal:** Mouse--LD₅₀: 250 mg/kg.**Oral:** Rat--LD₅₀: 7710 mg/kg, lung, thorax, or respiration, cyanosis liver, other changes kidney, ureter, and bladder, other changes in urine composition; Mouse--LD₅₀: 5700 mg/kg..**Skin:** Mammal (species 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.**Nonionic Surfactant****Hazard Data:****Oral:** Rat-LD₅₀: 12300 uL/kg.**Skin:** Rabbit-LD₅₀: >20 mL/kg.**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

Prevent material from entering drains, sewers, streams, etc.

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

DOT Shipping Name:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE, 55%)
DOT Hazard Class:	5.2
UN/NA ID No.:	UN3108
DOT Packing Group:	PG II

2004 ERG GUIDE NO.:	145
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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	54 - 56

TSCA Status

The ingredients in this product are listed in the US Toxic Substances Control Act (TSCA) Inventory.

Canadian Domestic Substances List (DSL)

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

Status of Carcinogenicity

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

BENOX[®] B-55 108 WHITE**SECTION 16 - OTHER INFORMATION****VOC Information**

None of the ingredients in Benox B-55 108 White meet the definition of a VOC.

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-55 108 White MSDS 0709

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