



# MATERIAL SAFETY DATA SHEET

## BENOX<sup>®</sup> A-80 OCF

Syrgis Performance  
Initiators, Inc.

Helena, AR

### SECTION 1 - IDENTIFICATION OF THE PRODUCT AND THE COMPANY

PRODUCT NAME	BENOX <sup>®</sup> A-80 OCF	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 in Water	CAS NO.	94-36-0
CHEMICAL FAMILY	Organic Peroxide - Diacyl Peroxide	CHEMICAL FORMULA	(C <sub>6</sub> H <sub>5</sub> CO) <sub>2</sub> O <sub>2</sub>

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	%
Benzoyl Peroxide	94-36-0	75 - 79
Amorphous Fumed Silica	68909-20-6	3
Water	7732-18-5	18 - 22

### SECTION 3 - HAZARD IDENTIFICATION OF THE PREPARATION

PHYSICAL HAZARDS	Organic Peroxide - Decomposition. Moderate fire hazard.
HEALTH HAZARDS	Irritant.
EXPOSURE LIMITS	OSHA PEL and ACGIH TWA: 5 mg/m <sup>3</sup> .
ROUTES OF EXPOSURE	
Skin Absorption	May cause 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.
Eye Contact	May cause irritation, redness, and pain.
Ingestion	Poison by ingestion. May cause human systemic effects by ingestion: hallucinations, distorted perceptions, nausea or vomiting and kidney, ureter or bladder changes.
Inhalation	Decomposition products are toxic and inhalation of the products can produce life threatening health effects.
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	Fire hazard increases when material becomes dry. Container explosion may occur under fire conditions. May explode when heated. May be shock-sensitive. Emits toxic fumes under fire conditions. Contact with other material may cause fire. Self-ignition is possible. May accelerate combustion.

**BENOX<sup>®</sup> A-80 OCF****SECTION 6 - ACCIDENTAL RELEASE MEASURES**

<b>STEPS TO BE TAKEN IN EVENT OF SPILL OR RELEASE</b>	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**

<b>HANDLING</b>	Keep containers closed to prevent contamination. Rotate stock using the oldest material first. When necessary employ grounding, bonding, and explosion venting due to static discharge, shock, impact, heat, friction, or blows. Use necessary PPE as indicated by Section 8.
<b>STORAGE</b>	Store in a cool, well-ventilated and fire-resistant location. Shield containers from direct sunlight and maintain their temperature at less than 38°C (100°F). <u>DO NOT STORE WITH FOOD OR DRINK.</u> See NFPA 432 for additional storage information/requirements.
<b>OTHER PRECAUTIONS</b>	Avoid any conditions that may cause drying or contamination. Do not leave material uncovered. Store in proper storage area and remove only as needed. Keep material in its original container. <u>DO NOT USE NEAR FOOD OR DRINK.</u>

**SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

<b>VENTILATION</b>	Mechanical, general.
<b>RESPIRATORY PROTECTION</b>	If airborne concentrations are expected to exceed acceptable levels wear a NIOSH/MSHA approved air-purifying respirator with an organic vapor cartridge or canister. When using respirators refer to OSHA's 29CFR 1910.134.
<b>EYE PROTECTION</b>	Safety goggles recommended. Permanent eyewash is highly recommended.
<b>HAND PROTECTION</b>	Protective gloves recommended, solvent resistant, such as butyl rubber, nitrile or neoprene.
<b>OTHER</b>	None.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE AND ODOR:</b>	White powdery solid with no odor.		
<b>BOILING POINT:</b>	Decomposes.	<b>SPECIFIC GRAVITY:</b>	1.3 at 25°C.
<b>VAPOR PRESSURE:</b>	Not applicable.	<b>FLASH POINT:</b>	Not applicable.
<b>VAPOR DENSITY:</b>	Not applicable.	<b>FLAMMABLE LIMITS:</b>	Not applicable.
<b>EVAPORATION RATE:</b>	Not applicable.	<b>SADT:</b>	>50°C.
<b>% VOLATILE BY VOLUME:</b>	Not applicable.	<b>pH:</b>	Not applicable.
<b>SOLUBILITY IN WATER:</b>	Negligible.		

**SECTION 10 - STABILITY AND REACTIVITY**

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

**BENOX<sup>®</sup> A-80 OCF****SECTION 11 - TOXICOLOGICAL INFORMATION****Benzoyl Peroxide****Hazard Data:****Intraperitoneal:** Mouse--LD<sub>50</sub>: 250 mg/kg.**Oral:** Rat--LD<sub>50</sub>: 7710 mg/kg; Mouse--LD<sub>50</sub>: 5700 mg/kg.**Skin:** Mammal (unspecified)--LD<sub>50</sub>: >1 gm/kg.**Amorphous Fumed Silica****Hazard Data:****Inhalation:** Rat--LC<sub>50</sub>: >0.09 mg/l/4hr, <0.84mg/l/4hr**Oral:** Rat--LD<sub>50</sub>: >5,000 mg/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**

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**

<b>DOT Shipping Name:</b>	ORGANIC PEROXIDE TYPE B, SOLID (DIBENZOYL PEROXIDE, ≤82%)
<b>DOT Hazard Class:</b>	5.2 (1)
<b>UN/NA ID No.:</b>	UN3102
<b>DOT Packaging Group:</b>	PG II
<b>Labels:</b>	5.2 (Organic Peroxide), 1 (Explosive, subsidiary)
<b>2004 ERG GUIDE NO:</b>	146

**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	75 - 79
Amorphous Fumed Silica	68909-20-6	3

**Australian Inventory of Chemical Substances (AICS)**

The ingredients in this product are listed in the Australian AICS Inventory.

**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.

**European Inventory of Existing Commercial Chemical Substances (EINECS)**

The ingredients in this product are listed in the European EINECS Inventory.

**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.

**BENOX<sup>®</sup> A-80 OCF****SECTION 16 - OTHER INFORMATION****VOC Information**

Product contains no ingredients that meet the definition of a VOC.

**NFPA 432 Organic Peroxide Classification**

Class II

**NFPA 704 Rating**

<u>Health</u>	<u>Flammability</u>	<u>Reactivity</u>
1	2	3

**HMIS Rating**

<u>Health</u>	<u>Flammability</u>	<u>Reactivity</u>
1	2	3

**MSDS Reference:** A-80 OCF MSDS 0709

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