



MATERIAL SAFETY DATA SHEET

Syrgis Performance
Initiators, Inc.
Helena, AR

NOROX[®] 305

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND THE COMPANY

PRODUCT NAME	NOROX [®] 305	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	Dilauroyl Peroxide	CAS NO.	16111-62-9
CHEMICAL FAMILY	Organic Peroxide - Diacyl Peroxide	CHEMICAL FORMULA	C ₂₀ H ₃₄ O ₆

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	%
Dilauroyl Peroxide	105-74-8	100

SECTION 3 - HAZARD IDENTIFICATION OF THE PREPARATION

PHYSICAL HAZARDS	Organic Peroxide - Decomposition. Potential fire hazard. Potential dust/air mixture explosions.
HEALTH HAZARDS	Potential irritant.
ROUTES OF EXPOSURE	
Skin Contact	May cause skin irritation.
Eye Contact	May cause eye irritation, including redness of mucous membranes and tearing.
Ingestion	May irritation of mucous membranes lining mouth, throat and stomach.
Inhalation	Breathing dilauroyl peroxide dust may irritate the nose and throat. May cause coughing and chest discomfort.
EFFECTS OF OVER-EXPOSURE	None known.

SECTION 4 - FIRST-AID MEASURES

SKIN	Immediately remove any contaminated clothing. Wash contaminated area thoroughly with soap and copious amounts of water. 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	Do Not induce vomiting (danger of aspiration of chemicals into the lungs). Drink plenty of water if victim is completely conscious. Immediately call a physician. For aid to physician, suggest local Poison Control Center.
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 established.
AUTOIGNITION POINT	Not established.
EXTINGUISHING MEDIA	Water from a safe distance - preferably with a fog nozzle. In case of very small fires, other means such as carbon dioxide, alcohol resistant foam or dry chemical extinguishers may be effective.
SPECIAL FIRE FIGHTING PROCEDURES	Firemen 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	The heat of decomposition of the peroxides adds to the heat of the fire. In case of decomposition without flames, explosion risk exists due to the developing air/gas mixture. Concentrated dust/air mixtures may present an explosion hazard.

NOROX[®] 305**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN EVENT OF SPILL OR RELEASE Evacuate area of all unnecessary personnel. Remove potential sources of ignition. Refer to protective measures listed in sections 7 and 8. Contain on and collect spilled material with vermiculite, diatomaceous earth or clean sand. Moisten with water. Keep spilled material from entering drains, sewers, streams, etc. Carefully collect the material and transfer into a clean polyethylene lined or a polyethylene drum disposal container. Label container and store in a secure area for proper disposal.

SECTION 7 - HANDLING AND STORAGE

HANDLING Rotate stock using the oldest material first. Avoid contact with skin, eyes and clothing. Use PPE as specified in Section 8. Keep containers closed to prevent contamination. Keep away from sources of heat, sparks or flame. Do not add to hot materials as a violent decomposition and/or reaction may result. Keep unused portions in original container. Do not transfer to rigid containers with tight closures. DO NOT USE NEAR FOOD OR DRINK. Wash thoroughly after handling.

STORAGE Keep material in its original container away from any incompatible materials (see Section 10), direct sunlight or other sources of heat. Store in an isolated, well-ventilated area below 86°F (30°C). Product should be kept below 100°F (38°C) at all times. Temperatures above 122°F (50°C) will lead to vigorous decomposition and fire. DO NOT STORE WITH FOOD OR DRINK. Refer to NFPA 432 Code for the Storage of Organic Peroxide Formulations from the National Fire Protection Association for additional storage information.

OTHER PRECAUTIONS Unmixed, uncontaminated material, remaining at the end of the day, shall be returned to a proper organic peroxide storage area. Under no circumstances should material be returned to the original container.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

VENTILATION Use adequate ventilation.

RESPIRATORY PROTECTION Not generally required unless necessary to prevent respiratory irritation. In case of spill or leak of unknown concentration, use NIOSH approved particle filtering respirator.

EYE PROTECTION Safety goggles recommended, goggles with a face shield are preferred.

HAND PROTECTION Protective gloves recommended, solvent resistant, such as butyl rubber, nitrile, neoprene or viton.

OTHER A safety shower and eyewash is highly recommended when the risk of a significant exposure exists.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	White solid with a mild odor.		
BOILING POINT:	Decomposes	SPECIFIC GRAVITY:	.4 @ 20°C
VAPOR PRESSURE:	Not applicable.	FLASH POINT:	Not applicable.
VAPOR DENSITY:	Not applicable.	FLAMMABLE LIMITS:	Not established.
EVAPORATION RATE:	Not applicable.	SADT	50°C (122°F)
% VOLATILE BY VOLUME:	Not applicable.	pH:	Not applicable.
SOLUBILITY IN WATER:	Insoluble.		

SECTION 10 - STABILITY AND REACTIVITY

STABILITY Stable under recommended storage conditions.

CONDITIONS TO AVOID Contamination. Direct sunlight. Open flames. Heat. Sparks. Prolonged storage above 100°F (38°C). Storage at or above SADT. Storage near flammable or combustible materials.

MATERIALS TO AVOID Promoters, accelerators, heavy metal salts, strong acids and bases, oxidizing and reducing agents, combustibles or any hot material.

HAZARDOUS DECOMPOSITION PRODUCTS Decomposition produces various carbon oxides, hydrocarbons, flammable, irritant, corrosive, harmful/toxic gases and vapors.

HAZARDOUS POLYMERIZATION Will not occur.

NOROX[®] 305**SECTION 11 - TOXICOLOGICAL INFORMATION**

Dilauroyl Peroxide (99.7%)

Hazard Data:**Inhalation:** Rat--LC₅₀: 100 mg/l/4hr**Oral:** Rat--LD₅₀: >2,000 mg/kg**Mutagenicity**

AMES - Test: Not mutagenic.

SECTION 12 - ECOLOGICAL INFORMATION

The product should be prevented from entering drains, sewers, streams, etc.

Dilauroyl Peroxide (99.7%)

Ecological Data:**Ecotoxicity:** Fish--LC₅₀: >1,000 mg/l/96hr; Bacterial--EC₅₀: >1,000 mg/l.**Biodegradability:** Readily biodegradable.**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 D, SOLID (DILAUROYL PEROXIDE, ≤100%)
DOT Hazard Class:	5.2
UN/NA ID No.:	UN3106
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>
None	N/A	N/A

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.

Japanese Existing and New Chemical Substances (ENCS)

The ingredients in this product are listed in the Japanese ENCS 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.

NOROX[®] 305**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	2

MSDS Reference: Norox 305 MSDS 0709**DISCLAIMER OF LIABILITY**

The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.