

NOROX[®] 802-75P

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND THE COMPANY

PRODUCT NAME	NOROX[®] 802-75P	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	tert-Butyl peroxy-2-ethylhexanoate / 1,1-Di-(tert-butylperoxy)-3,3,5-trimethylcyclohexane Mix	CAS NO.	See section 2.
CHEMICAL FAMILY	Organic Peroxide - Peroxyester/Peroxyketal Mix	CHEMICAL FORMULA	C ₁₂ H ₂₄ O ₃ /C ₁₇ H ₃₄ O ₄

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	%
tert-Butyl peroxy-2-ethylhexanoate	3006-82-4	50
1,1-Di-(tert-butylperoxy)-3,3,5-trimethylcyclohexane	6731-36-8	25
Diisobutyl Phthalate	84-69-5	25

SECTION 3 - HAZARD IDENTIFICATION OF THE PREPARATION

PHYSICAL HAZARDS	Organic Peroxide. Decomposition Hazards. Combustible Liquid.
HEALTH HAZARDS	Irritant.
EXPOSURE LIMITS	No data.
ROUTES OF EXPOSURE	
Skin Contact	May produce moderate skin irritation including redness, swelling, drying and scaling, thickening depigmentation, and hair loss.
Eye Contact	May produce moderate to severe eye and mucous membrane irritation.
Ingestion	May cause gastrointestinal irritation, diarrhea, and central nervous system depression. If swallowed may be aspirated resulting in inflammation and possible fluid accumulation in the lungs.
Inhalation	May be moderately irritating to the nose, throat and mucous membranes. High concentrations may cause breathing difficulties, dizziness, headaches and central nervous system effects.
EFFECTS OF OVER-EXPOSURE	None established.

SECTION 4 - FIRST-AID MEASURES

SKIN	Remove contaminated clothing. Flush contaminated skin with water then thoroughly wash contaminated area with soap and water. If irritation persists, seek medical attention.
EYES	Remove any contact lenses at once. Flush eyes with water for a minimum of 15 minutes. Hold eyelids apart during the flushing to ensure rinsing of the entire surface of the eye and lids with water. Do Not let victim rub eye(s). If irritation persists, seek medical attention.
INGESTION	Do Not induce vomiting. Drink plenty of water. Immediately call a physician. For aid to physician, suggest local Poison Control Center. Never attempt to give anything by mouth to a person who is unconscious or convulsing.
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:	145°F (63°C)
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, foam or dry chemical extinguishers may be effective.
SPECIAL FIRE FIGHTING PROCEDURES	Firefighters should be equipped with protective clothing and SCBA's. In case of fire near storage area, cool the containers with water spray. Dike fire control water for later disposal. Do not allow contaminated water to enter waterways.

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UNUSUAL FIRE AND EXPLOSION HAZARDS	Product is a combustible liquid. Containers exposed to heat or fire may bulge and rupture with potentially explosive force. This product can produce vapors, which may travel to a source of ignition and flash back. 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.
HAZARDOUS PRODUCTS OF COMBUSTION	Thermal decomposition products may include toxic oxides, acetone, methane, ethane, tert-butanol, 2-ethylhexanol, 2ethyl-hexanoic acid and 5,6-diethyldecane.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN EVENT OF SPILL OR RELEASE	Evacuate area of all unnecessary personnel. Removes all sources of ignition. Use non-sparking tools. Refer to protective measures listed in sections 7 and 8. Observe storage temperature limitations. Stop source of spill. Dike to prevent spill from spreading. Keep spilled material from entering drains, sewers, streams, etc. Dilute spilled material with mineral spirits. The addition of mineral spirits will reduce the concentration of the peroxide and reduce its hazard potential. Soak up liquid with a suitable absorbent such as clay, sawdust or kitty litter. 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. Observe recommended storage temperature for this material.
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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 solvents or monomers as a violent decomposition and/or reaction may result. Keep unused portions in original container. Do not transfer to rigid containers with tight closures. <u>DO NOT USE NEAR FOOD OR DRINK</u> . 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 68°F (20°C). Keep below 86°F (30°C) at all times. Temperatures above 95°F (35°C) may lead to vigorous decomposition and fire. <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	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	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. In case of spill or leak of unknown concentration, use NIOSH approved supplied air respirator.
EYE PROTECTION	Safety goggles recommended, goggles with a face shield are preferred. Permanent eyewash is highly recommended.
HAND PROTECTION	Protective gloves recommended, neoprene or nitrile rubber (solvent resistant).
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:	Clear, colorless liquid with a distinctive odor.		
BOILING POINT:	Decomposes.	SPECIFIC GRAVITY:	.9 @ 25°C (77°F)
VAPOR PRESSURE:	Not established.	FLASH POINT:	145°F (63°C)
VAPOR DENSITY:	>1 (air = 1)	FLAMMABLE LIMITS:	Not established.
EVAPORATION RATE:	Not established.	SADT:	~ 40°C (104°F)
% VOLATILE BY VOLUME:	Not established.	pH:	Not applicable.
SOLUBILITY IN WATER:	Negligible.		

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SECTION 10 - STABILITY AND REACTIVITY

STABILITY	Stable at recommended storage temperature, but may decompose uncontrollably if exposed to temperatures at or above 95°F (35°C).
CONDITIONS TO AVOID	Contamination. Direct sunlight. Open flames. Sparks. Prolonged storage above 68°F. Storage at or above SADT. Storage near flammable or combustible materials.
MATERIALS TO AVOID	Promoters, accelerators, metal salts, acids, corrosives, oxidizing and reducing agents, or any hot material.
HAZARDOUS DECOMPOSITION PRODUCTS	Decomposition products are carbon dioxide, carbon monoxide, acetone, methane, ethane, tert-butanol, 2-ethylhexanol, 2ethyl-hexanoic acid and 5,6-diethyldecane. Note some decomposition products are flammable.
HAZARDOUS POLYMERIZATION	Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

t-Butyl peroxy-2-ethylhexanoate

Hazard Data:

Dermal: Rabbit--LD₅₀: 16818 mg/kg.

Oral: Rat--LD₅₀: 10000 mg/kg.

1,1-Di-(tert-butylperoxy)-3,3,5-trimethylcyclohexane

Hazard Data:

Inhalation: Rat--LC₅₀: >800 mg/l (male).

Inhalation: Rat--LC₅₀: >400<800 mg/l (female).

Inhalation: Rat--LC₅₀: >800 mg/l [4hr] (combined).

Intradermal--Rabbit LD₅₀: >8000 mg/kg.

Oral: Rat--LD₅₀: > 12918 mg/kg.

Diisobutyl Phthalate

No Data

SECTION 12 - ECOLOGICAL INFORMATION

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

t-Butyl peroxy-2-ethylhexanoate

Bacteria toxicity: (Activated sludge respiration inhibition test)--EC₅₀: 64 mg/l.

Acute toxicity: Zebrafish--LC₅₀ (96hr): 8.7 g/ml.

Biodegradability (Closed Bottle Test): Completely biodegradable.

1,1-Di-(tert-butylperoxy)-3,3,5-trimethylcyclohexane

No Data

Diisobutyl Phthalate

No Data

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.

RCRA Classification of unadulterated product as a waste:

Reactive (D003)

Ignitable (D001)

NOROX[®] 802-75P**SECTION 14 - TRANSPORT INFORMATION**

DOT Shipping Name: ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED (TERT-BUTYL PEROXY-2-ETHYLHEXANOATE, 50%, 1,1-DI-(TERT-BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE, 25%)

DOT Hazard Class: 5.2

UN/NA ID No.: UN3113

DOT Packing Group: PG II

Control Temperature: +30°C (86°F)

Emergency Temperature: +35°C (95°F)

Labels: 5.2 (Organic Peroxide)

2000 ERG GUIDE NO.: 148

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>
Diisobutyl Phthalate	84-69-5	25

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.

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

Class III

NFPA 704 Rating

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

HMIS Rating

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

MSDS Reference: Norox 802-75P MSDS 0709

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