



## 1 PRODUCT AND COMPANY IDENTIFICATION

### Functional Additives

2000 Market Street  
28th Floor  
Philadelphia, PA 19103-3222

### EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
Medical: Rocky Mountain Poison Control Center  
(866) 767-5089 (24Hrs)

Information Telephone Numbers	Phone Number	Available Hrs
Customer Service Number	(800) 331-7654	8:00 AM - 5:00 PM EST

Product Name LUPEROX 223V75  
Product Synonym(s)  
Chemical Family Organic Peroxide - Peroxydicarbonate  
Chemical Formula  
Chemical Name Di-(2-ethylhexyl)peroxydicarbonate  
EPA Reg Num  
Product Use Polymerization Initiator

## 2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical %	OSHA
Proprietary Diluent NJTSN 03365400-5075P	NJTSN 03365400-5075P	25	Y
Di-2-ethylhexyl peroxydicarbonate	16111-62-9	75	Y

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

The components of this product are either on the TSCA Inventory list or exempt as impurities.

## 3 HAZARDS IDENTIFICATION

### Emergency Overview

Colorless liquid, unpleasant odor

DANGER!  
ORGANIC PEROXIDE  
THERMALLY UNSTABLE - REFRIGERATION REQUIRED  
MAY CAUSE SKIN IRRITATION.  
MAY CAUSE ALLERGIC SKIN REACTION.

### Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on its composition, it is anticipated to be no more than slightly toxic if swallowed or absorbed through skin, slightly irritating to eyes and moderately irritating to skin. Repeated or prolonged contact may cause an allergic skin reaction.

## 4 FIRST AID MEASURES

#### **4 FIRST AID MEASURES**

IF IN EYES, immediately flush with plenty of water.

IF ON SKIN, immediately wash with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Thoroughly clean shoes before reuse.

IF SWALLOWED, induce vomiting as directed by medical personnel. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air.

#### **5 FIRE FIGHTING MEASURES**

##### **Fire and Explosive Properties**

Auto-Ignition Temperature	NE	Flash Point Method	Seta CC
Flash Point	>38 C (>100 F)		
Flammable Limits- Upper	NE		
Lower	NE		

##### **Extinguishing Media**

Use water spray, foam or dry chemical.

##### **Fire Fighting Instructions**

Fight fire with large amounts of water from a safe distance. Use water spray to cool containers exposed to fire. Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use. After a fire, wait until the material has cooled to room temperature before initiating clean up activities.

##### **Fire and Explosion Hazards**

Contact with incompatible materials or exposure to temperatures exceeding the SADT may result in a self accelerating decomposition reaction with release of flammable vapors which may autoignite.

#### **6 ACCIDENTAL RELEASE MEASURES**

##### **In Case of Spill or Leak**

Use inert, non-combustible absorbant material such as sodium bicarbonate, sodium carbonate, calcium carbonate, clean sand or non-acidic clay directly on the spilled peroxide, then wet down (dampen) the mixture with water. Sweep or scoop up using non-sparking tools and place into a polyethylene bag for disposal. The sweepings should be wetted down further with water. Dispose of immediately. After all of the material has been collected, wash down the area with detergent and water. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

#### **7 HANDLING AND STORAGE**

**7 HANDLING AND STORAGE****Handling**

Contact with incompatible materials or exposure to temperatures exceeding SADT (See Section (9)) may result in a self accelerating decomposition reaction with release of flammable vapors which may autoignite. Keep away from heat sparks and flame. Avoid contamination. Use only with adequate ventilation. Keep container closed. Use explosion proof equipment. Do not reuse container as it may retain hazardous product residue. Avoid prolonged or repeated contact with skin. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Minimize exposure to ambient temperatures.

**Storage**

REFRIGERATION REQUIRED. Detached storage is preferred. Keep out of direct sunlight. Store away from combustibles and incompatible materials. Refer also to National Fire Protection Agency (NFPA) Code 432, Code for the Storage of Organic Peroxide Formulations. Minimize exposure to ambient temperatures. To maintain stability and active oxygen content, store below -5 C (23 F) .

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION****Engineering Controls**

Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposures. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

**Eye / Face Protection**

Use good industrial practice to avoid eye contact.

**Skin Protection**

Thermally insulated gloves should be worn when handling this material. Wear face shield and chemical resistant clothing such as a rubber apron when splashing may occur. Wash contaminated clothing and clean protective equipment before reuse. Rinse contaminated skin promptly. Wash skin thoroughly after handling.

**Respiratory Protection**

Avoid breathing vapor or mist. Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

**Airborne Exposure Guidelines for Ingredients**

The components of this product have no established Airborne Exposure Guidelines

- Only those components with exposure limits are printed in this section.
- Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
- ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.
- WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Odor	Colorless liquid, unpleasant odor
pH	NE
Specific Gravity	NE
Vapor Pressure	NE
Vapor Density	NE
Melting Point	NA
Freezing Point	NE
Boiling Point	NE
Solubility In Water	Negligible
Evaporation Rate	NE
Percent Volatile	NE
SADT	25 C/ 77 F (7 lb ctn.)

This material is chemically unstable and should only be handled under specified conditions. See HANDLING AND STORAGE section of this MSDS for specified conditions.

SADT - Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction. This reaction will generate flammable vapors which may autoignite. The length of time to generated a decomposition reaction, after the SADT has been reached or exceeded, is dependent upon how much the SADT has been exceeded and the length of time needed for the reaction exotherm (heat spike from increasing decomposition rate) to initiate a rapid decomposition reaction. Typically, SADT is inversely proportional to package size. Larger packages will have a lower SADT due to smaller ratio to heat transfer area to volume of product.

**Other Physical Data**

Active Oxygen Content = 3.46%

**10 STABILITY AND REACTIVITY****Stability**

This material is chemically unstable and should only be handled under specified conditions. See HANDLING AND STORAGE section of this MSDS for specified conditions.

SADT - Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction. This reaction will generate flammable vapors which may autoignite. The length of time to generated a decomposition reaction, after the SADT has been reached or exceeded, is dependent upon how much the SADT has been exceeded and the length of time needed for the reaction exotherm (heat spike from increasing decomposition rate) to initiate a rapid decomposition reaction. Typically, SADT is inversely proportional to package size. Larger packages will have a lower SADT due to smaller ratio to heat transfer area to volume of product.

**Hazardous Polymerization**

Does not occur.

**Incompatibility**

Contact with foreign materials, such as, strong acids, alkalis, oxidizers, amines, accelerators/promoters and reducing agents may result in a violent decomposition reaction or in product degradation.

**Hazardous Decomposition Products**

Temperatures at or above the SADT can result in the release of hazardous decomposition products which are flammable and autoignite.

**11 TOXICOLOGICAL INFORMATION**

**11 TOXICOLOGICAL INFORMATION****Toxicological Information**

Data on this material and/or its components are summarized below.

**Di-2-ethylhexyl peroxydicarbonate**

Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 3,690 mg/kg, 40% in dimethyl phthalate), no more than slightly toxic if absorbed through skin (rabbit LD50 >2,000 mg/kg), slightly irritating to rabbit eyes (13.7/110) and moderately irritating to rabbit skin (4-hr exposure 3.8/8.0, 75% in OMS). Skin allergy was observed in guinea pigs following repeated exposure. No genetic changes were observed in a test using bacteria.

**Proprietary Diluent**

Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 3,730 mg/kg), practically non-toxic if absorbed through skin (rabbit LD50 10,100 mg/kg) and slightly irritating to rabbit eyes and skin. Reports of allergic skin reaction have been reported. No genetic changes were observed in tests using bacteria or animals.

**12 ECOLOGICAL INFORMATION****Ecotoxicological Information**

No data are available.

**Chemical Fate Information**

No data are available.

**13 DISPOSAL CONSIDERATIONS****Waste Disposal**

Dispose of in accordance with federal, state and local regulations. Dilution followed by incineration is the preferred method. Dilution ration of 10:1 in a clean, compatible, combustible solvent (i.e., Fuel Oil #2, mineral oil) will reduce reactivity hazard during incineration and transportation.

**14 TRANSPORT INFORMATION**

DOT Name	Organic Peroxide Type D, Liquid, Temperature Controlled
DOT Technical Name	[ Di-(2-ethylhexyl)peroxydicarbonate, <= 77 % ]
DOT Hazard Class	5.2
UN Number	UN 3115
DOT Packing Group	PG II
RQ	
DOT Special Information	DOT Control Temperature = -15 C DOT Emergency Temperature = -5 C

**15 REGULATORY INFORMATION**



**Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)**

Immediate (Acute) Health	Y	Fire	Y
Delayed (Chronic) Health	N	Reactive	Y
		Sudden Release of Pressure	N

**TSCA Memo for Product**

The specific chemical identity of this product is withheld because it is trade secret information. See the composition section for the MSDS for Trade Secret Numbers.

The components of this product are either on the TSCA Inventory list or exempt as impurities.

**Ingredient Related Regulatory Information:**

**SARA Reportable Quantities**

	CERCLA RQ	SARA TPQ
Di-2-ethylhexyl peroxydicarbonate	NE	
Proprietary Diluent NJTSN 03365400-5075P	NE	NE

**New Jersey Right to Know**

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.

Di-2-ethylhexyl peroxydicarbonate

**16 OTHER INFORMATION**

**Revision Information**

Revision Date	02 JAN 2007	Revision Number	6
Supersedes Revision Dated	09-MAR-2005		

**Revision Summary**

This material has been transferred to the Functional Additives group.

**Key**

NE= Not Established    NA= Not Applicable    (R) = Registered Trademark

**Miscellaneous**

Back-up or emergency refrigeration should be available in case primary refrigeration is lost. Emergency dry ice source(s) should be known in case of refrigeration failure. Temperature in storage areas should be monitored. Refrigeration systems should have high temperature alarms to warn of loss of refrigeration.

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