



# LUPEROX 230XL40-SP

Material Safety Data Sheet

Arkema Inc.

## 1 PRODUCT AND COMPANY IDENTIFICATION

### Functional Additives

2000 Market Street  
21st 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 230XL40-SP

Product Synonym(s)

Chemical Family Organic Peroxide - Dialkyl

Chemical Formula

Chemical Name

EPA Reg Num

Product Use Polymerization Initiator

## 2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical %	OSHA
Anti-oxidizing agent	Proprietary	<5	Y
Silica gel	112926-00-8	<30	Y
Calcium carbonate	471-34-1	<30	Y
n,-Butyl-4,4-bis(tert-butylperoxy) valerate	995-33-5	>40	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

Slightly yellow pellets

WARNING!

ORGANIC PEROXIDE

MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE EYE AND SKIN IRRITATION.

### 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 moderately irritating to eyes and skin. Repeated exposure may cause an allergic skin reaction. Overexposure may be irritating to the respiratory tract.

**4 FIRST AID MEASURES**

IN CASE OF CONTACT, flush the area with plenty of water. Remove material from clothing. Wash clothing 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. If breathing is difficult, get medical attention.

**5 FIRE FIGHTING MEASURES****Fire and Explosive Properties**

Auto-Ignition Temperature	NE		
Flash Point	130-135 C	Flash Point Method	COC
Flammable Limits- Upper	NE		
Lower	NE		

**Extinguishing Media**

Use water spray, foam or dry chemical.

**Fire Fighting Instructions**

Do NOT use a solid stream of water. A solid stream of water can cause a dust explosion. 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.

**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**

Wet down (dampen) the spilled peroxide 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****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. Use explosion proof equipment. Keep container closed. Do not reuse container as it may retain hazardous product residue. Wash thoroughly after handling. Avoid creating dust in handling, transfer or clean-up. Avoid

**7 HANDLING AND STORAGE**

breathing dust.

**Storage**

Store below 38 C/100 F to maintain stability and active oxygen content. Detached storage is preferred. Store out of direct sunlight in a cool well-ventilated place. 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.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering Controls**

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

**Eye / Face Protection**

Use good industrial practice to avoid eye contact.

**Skin Protection**

Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

**Respiratory Protection**

Avoid breathing dust. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. 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 exposure limit may be significantly exceeded, 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**

Exposure Limit	Value
<b>Calcium carbonate</b>	
ACGIH TWA	- 10 mg/m3
<b>Silica gel</b>	
OSHA TWA PEL	- 20 mppcf / 0.8 mg/m3

- 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.



**11 TOXICOLOGICAL INFORMATION****Limestone**

This material is a major component of limestone and is widely used as an over-the-counter antacid. Human workplace experience indicates that exposure to dust does not pose acute or chronic hazards. It is generally considered a nuisance dust. Impure material may contain silica which causes lung fibrosis and increased lung cancer risk. Ingestion of large amounts of antacids results in hypercalcemia or milk alkali disease which is characterized by weakness, nausea, elevated serum calcium levels, alkalosis and, in severe cases, reversible kidney failure. Long-term feeding did not show a promoting or anti-carcinogenic effect in rats. No effects were observed in the offspring of rats following dietary administration during pregnancy; bone effects were observed in the offspring of lamb. No genetic changes were observed in tests using bacteria.

**Silica Gel**

Laboratory studies in animals exposed by inhalation to this material have reportedly shown reversible lung effects.

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

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

**Limestone**

This material is practically non-toxic to Gambusia (LC50 >56,000 mg/l) and mollies (LC50 >100,000 mg/l).

**Chemical Fate Information**

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

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

Incineration is the recommended method for disposal observing all local, state and federal regulations.

**14 TRANSPORT INFORMATION**

DOT Name	Organic Peroxide Type E, Solid
DOT Technical Name	[n-Butyl-4,4-di-(tert-butylperoxy)valerate, <=52%]
DOT Hazard Class	5.2
UN Number	UN 3108
DOT Packing Group	PG II
RQ	
DOT Special Information	Packing method - OP8

**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

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



# LUPEROX 230XL40-SP

Material Safety Data Sheet

Arkema Inc.

## Ingredient Related Regulatory Information:

### SARA Reportable Quantities

Calcium carbonate  
 Silica gel  
 n,-Butyl-4,4-bis(tert-butylperoxy) valerate  
 Anti-oxidizing agent

CERCLA RQ	SARA TPQ
NE	
NE	NE
NE	
NE	NE

### Massachusetts Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

Calcium carbonate  
 Silica gel

### 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.

Silica gel  
 n,-Butyl-4,4-bis(tert-butylperoxy) valerate

### Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List.

Calcium carbonate  
 Silica gel

## 16 OTHER INFORMATION

## Revision Information

Revision Date                    02 JAN 2007                    Revision Number 9  
 Supercedes Revision Dated   02-JAN-2007

## Revision Summary

This product has been moved to the Functional Additives business unit.

## Key

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

## Miscellaneous

LUPEROX is a registered trademark of Arkema Inc.

Arkema Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of Arkema Inc., Arkema Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.