

LUPEROX® ATC50

1. PRODUCT AND COMPANY IDENTIFICATION**Company**

Arkema Inc.
900 First Avenue
King of Prussia, Pennsylvania 19406

Functional Additives

Customer Service Telephone Number: (800) 331-7654
(Monday through Friday, 8:00 AM to 5:00 PM EST)

Emergency Information

Transportation: CHEMTREC: (800) 424-9300
(24 hrs., 7 days a week)
Medical: Rocky Mountain Poison Center: (866) 767-5089
(24 hrs., 7 days a week)

Product Information

Product name: LUPEROX® ATC50
Synonyms: Not available
Molecular formula: Complex mixture
Chemical family: Organic peroxide
Product use: Organic peroxide - diacyl peroxides
initiator/catalyst

SECTION 2: HAZARDS IDENTIFICATION**Emergency Overview**

Color: white
Physical state: semi-solid
Form: paste
Odor: Slightly benzaldehyde-like

***Classification of the substance or mixture:**

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Organic peroxides, Type E, H242
Eye irritation, Category 2B, H320
Skin sensitisation, Category 1, H317
Reproductive toxicity, Category 2, H361
Acute aquatic toxicity, Category 1, H400
Chronic aquatic toxicity, Category 1, H410

*For the full text of the H-Statements mentioned in this Section, see Section 16.

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GHS-Labeling

Hazard pictograms:



Signal word:

Warning**Hazard statements:**

H242 : Heating may cause a fire.
H317 : May cause an allergic skin reaction.
H320 : Causes eye irritation.
H361 : Suspected of damaging fertility or the unborn child.
H410 : Very toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements:

Organic peroxide.
Hazardous decomposition may occur.

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Precautionary statements:**Prevention:**

P201 : Obtain special instructions before use.
P202 : Do not handle until all safety precautions have been read and understood.
P210 : Keep away from heat, sparks, open flames, hot surfaces. No smoking.
P220 : Keep/Store away from clothing/ combustible materials.
P234 : Keep only in original container.
P261 : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 : Wash skin thoroughly after handling.
P272 : Contaminated work clothing should not be allowed out of the workplace.
P273 : Avoid release to the environment.
P280 : Wear protective gloves or eye protection or face protection.
P281 : Use personal protective equipment as required.

Response:

P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 : IF exposed or concerned: Get medical advice/ attention.
P333 + P313 : If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 : If eye irritation persists: Get medical advice/ attention.
P363 : Wash contaminated clothing before reuse.
P391 : Collect spillage.

Storage:

P405 : Store locked up.
P410 : Protect from sunlight.
P411 + P235 : Maximum storage temperature is specified on label and in section 7 of SDS. Keep cool.
P420 : Store away from other materials.

Disposal:

P501 : Dispose of contents or container to an approved waste disposal plant.

Supplemental information:**Potential Health Effects:**

Components of the product may be absorbed into the body through the skin. Due to the presence of the solvent : May cause cholinesterase inhibition which has symptoms that could include fatigue, weakness, dizziness, nausea, blurred vision, headache, sweating, watery eyes, drooling, vomiting, tunnel vision, twitching, cramps, involuntary urination and/or defecation, muscle tremors, staggering gait, pinpoint pupils, drop in blood pressure, slow heartbeat, difficulty breathing, and possibly convulsions, coma, and death. (severity of effects depends on extent of exposure) (effects may be delayed). If product becomes dry, exposure to powder or dust may occur. Product dust may be irritating to eyes, skin and respiratory system., (based on a report of occupational exposure to workers).

Other:

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This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Wt/Wt	GHS Classification**
Dibenzoyl peroxide	94-36-0	≥ 50 - ≤ 52 %	H241, H320, H317, H400, H410
Phosphoric acid, tris(methylphenyl) ester	1330-78-5	≥ 46 - ≤ 48 %	H313, H361, H400, H410

**For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES**4.1. Description of necessary first-aid measures:****Inhalation:**

If inhaled, remove victim to fresh air.

Skin:

In case of contact, immediately flush skin with soap and plenty of water. Get medical attention if symptoms occur. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eyes:

Immediately flush eye(s) with plenty of water. Get medical attention.

Ingestion:

If swallowed, DO NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed:

For most important symptoms and effects (acute and delayed), see Section 2 (Hazard Statements and Supplemental Information if applicable) and Section 11 (Toxicology Information) of this SDS.

4.3. Indication of any immediate medical attention and special treatment needed:

Unless otherwise noted in Notes to Physician, no specific treatment noted; treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES**Extinguishing media (suitable):**

Water spray, Foam, Dry chemical

Protective equipment:

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).

Further firefighting advice:

Fight fire with large amounts of water from a safe distance.

Cool closed containers exposed to fire with water spray.

Closed containers of this material may explode when subjected to heat from surrounding fire.

After a fire, wait until the material has cooled to room temperature before initiating clean-up activities.

Do not allow run-off from fire fighting to enter drains or water courses.

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.

When burned, the following hazardous products of combustion can occur:

Carbon oxides

Hazardous organic compounds

Benzene

Benzoic acid

Biphenyl

Phenyl benzoate

SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, Emergency procedures, Methods and materials for containment/clean-up:**

Prevent further leakage or spillage if you can do so without risk. Evacuate area of all unnecessary personnel.

Ventilate the area. Eliminate all ignition sources. Avoid generation of vapors. Contain and collect spillage with non-combustible absorbent material such as sodium bicarbonate, sodium carbonate, calcium carbonate, clean sand or non-acidic clay and then wet down (dampen) the mixture with water. DO NOT USE peat moss. Sweep or scoop up using non-sparking tools and place into suitable properly labeled containers for prompt disposal. The sweepings should be wetted down further with water. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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.

Protective equipment:

Appropriate personal protective equipment is set forth in Section 8.

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SECTION 7: HANDLING AND STORAGE**Handling****General information on handling:**

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

Do not taste or swallow.

Do not get in eyes, on skin, or on clothing.

Avoid breathing dust.

Keep away from heat, sparks and flames.

No smoking.

Use only with adequate ventilation.

Wash thoroughly after handling.

Prevent product contamination.

Keep container tightly closed and away from combustible materials.

Keep only in the original container.

Container hazardous when empty.

Do not reuse container as it may retain hazardous product residue.

Emptied container retains product residue.

Implement routine housekeeping practices to ensure that dusts do not accumulate on surfaces.

Check that all equipment is properly grounded and installed to satisfy electrical classification requirements.

Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.

DO NOT CUT, DRILL, GRIND, OR WELD ON OR NEAR THIS CONTAINER.

Improper disposal or reuse of this container may be dangerous and/or illegal.

Storage**General information on storage conditions:**

Keep in a dry, cool place. Store in closed containers, in a secure area to prevent container damage and subsequent spillage. Segregated or detached storage is preferred. Store out of direct sunlight in a cool well-ventilated place.

Store in original container. Store away from combustibles and materials to avoid. Refer also to National Fire Protection Association (NFPA) Code 400, Hazardous Materials Code.

Storage stability – Remarks:

Follow the recommended storage temperatures provided in this Section in order to maintain stability and oxygen content.

Storage incompatibility – General:

Store separate from:

Strong acids

Strong bases

Strong oxidizing agents

Reducing agents

Amines

Accelerators

Friedel - Crafts reaction catalyst

Copper

Brass

Iron

For all Organic Peroxides, compatible materials of contact are stainless steel 304 or 316 (preferred), high-density

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polyethylene (HDPE), polytetrafluoroethylene or glass linings.

Temperature tolerance – Do not store above:

100 °F (38 °C)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne Exposure Guidelines:

Engineering controls:

Investigate engineering techniques to reduce exposures below airborne exposure limits or to otherwise reduce exposures. Provide ventilation if necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above). 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.

Respiratory protection:

Avoid breathing dust. Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), 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. Consult respirator manufacturer to determine appropriate type equipment for a 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 or 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.

Skin protection:

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Rinse immediately if skin is contaminated. Wash contaminated clothing and clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash thoroughly after handling.

Eye protection:

Where there is potential for eye contact, wear chemical goggles and have eye flushing equipment immediately available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Color:	white
Physical state:	semi-solid
Form:	paste
Odor:	Slightly benzaldehyde-like
Odor threshold:	No data available

Product code: 021000

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Flash point	The flashpoint of this product is greater than the Self Acceleration Decomposition Temperature (SADT).
Auto-ignition temperature:	No data available.
Lower flammable limit (LFL):	No data available
Upper flammable limit (UFL):	No data available
pH:	No data available
Density:	1.20 g/cm3 (72 °F (22 °C))
Specific Gravity (Relative density):	1.20 (72 °F (22 °C))
Bulk density:	1,235 kg/m3
Relative vapor density:	1.20 (72 °F (22 °C))
Boiling point/boiling range:	No data available.
Melting point/range:	No data available
Freezing point:	No data available.
Evaporation rate:	No data available
Solubility in water:	No data available
Viscosity, dynamic:	50,000 mPa.s
Oil/water partition coefficient:	No data available.
Self-Accelerating Decomposition Temperature (SADT):	estimated > 122 °F (> 50 °C) 5 gallon container
Thermal decomposition:	No data available
Active oxygen content:	3.3 - 3.44 %
Flammability:	See GHS Classification in Section 2 if applicable

SECTION 10: STABILITY AND REACTIVITY

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Stability:

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

Hazardous reactions:

Hazardous polymerization does not occur.

Materials to avoid:

Strong acids
Strong bases
Strong oxidizing agents
Reducing agents
Amines
Accelerators
Friedel - Crafts reaction catalyst
Copper
Brass
Iron

For all Organic Peroxides, compatible materials of contact are stainless steel 304 or 316 (preferred), high-density polyethylene (HDPE), polytetrafluoroethylene or glass linings.

Conditions / hazards to avoid:

See HANDLING AND STORAGE section of this SDS 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 generate 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. See Hazardous Decomposition Products below.

Hazardous decomposition products:

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

Thermal decomposition giving flammable and toxic products :

Carbon oxides
Hazardous organic compounds
Benzene
Benzoic acid
Biphenyl
Phenyl benzoate

SECTION 11: TOXICOLOGICAL INFORMATION

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

Data for LUPEROX® ATC50**Acute toxicity****Dermal:**

Practically nontoxic. Acute toxicity estimate > 5,000 mg/kg.

Data for Dibenzoyl peroxide (94-36-0)**Acute toxicity****Oral:**

Practically nontoxic. (rat) LD₀ > 5,000 mg/kg. (78 %)

Inhalation:

No deaths occurred. (rat) 4 h LC₀ = 24.3 mg/l. (78 %) (dust/mist)

Skin Irritation:

Not irritating. (rabbit) (4 h) (78 %)

Eye Irritation:

Causes eye irritation. (rabbit) (78 %)

Skin Sensitization:

May cause allergic skin reaction. LLNA: Local Lymph Node Assay. (mouse) Skin allergy was observed. (Strong sensitizer)

May cause allergic skin reaction. Buehler Test. (guinea pig) Skin allergy was observed.

Repeated dose toxicity

Repeated dietary administration to rat / affected organ(s): testes / signs: atrophy / (Repeated exposure at high concentrations)

Chronic dermal administration to rat, mouse / No adverse systemic effects reported.

Carcinogenicity

Chronic dietary, dermal administration to rat and mouse / No increase in tumor incidence was reported.

Classified by the International Agency for Research on Cancer as: Group 3: Unclassifiable as to carcinogenicity in humans.

Genotoxicity**Assessment in Vitro:**

No genetic changes were observed in laboratory tests using: bacteria, animal cells

Genotoxicity**Assessment in Vivo:**

No genetic changes were observed in laboratory tests using: mice

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Developmental toxicity

Exposure during pregnancy. Oral (rat) / No birth defects were observed. (delays in development)

Reproductive effects

Reproductive/Developmental Effects Screening Assay. Oral (rat) / No toxicity to reproduction / (reductions in birth weight, decreased growth rate)

Human experience**Inhalation:**

Throat: irritating. (dust) (based on reports of occupational exposure to workers)

Nose: irritating. (dust) (based on reports of occupational exposure to workers)

Human experience**Skin contact:**

Skin: Skin allergy was observed. (repeated or prolonged exposure) (studied using human volunteers)

Data for Phosphoric acid, tris(methylphenyl) ester (1330-78-5)**Acute toxicity****Oral:**

Practically nontoxic. (rat) LD50 > 20,000 mg/kg.

Dermal:

May be harmful in contact with skin. (rabbit) LD50 = 3,700 mg/kg.

Inhalation:

No deaths occurred. (rat) 4 h LC0 > 5.2 mg/l. (dust/mist)

Skin Irritation:

Not irritating. (rabbit) (4 h)

Eye Irritation:

Causes mild eye irritation. (rabbit)

Skin Sensitization:

LLNA: Local Lymph Node Assay. (mouse) Inconclusive.

Not a sensitizer. Guinea pig maximization test. No skin allergy was observed.

Repeated dose toxicity

Subchronic oral administration to rat / affected organ(s): adrenal gland, ovaries, testes, kidney / signs: changes in organ structure or function / (not considered relevant to humans)

Subchronic oral administration to mouse / affected organ(s): adrenal gland, ovaries, spinal cord, sciatic nerve / signs: changes in organ structure or function / (not considered relevant to humans)

Carcinogenicity

Chronic dietary administration to rat and mouse / No increase in tumor incidence was reported.

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Genotoxicity**Assessment in Vitro:**

No genetic changes were observed in a laboratory test using: bacteria, animal cells

Genotoxicity**Assessment in Vivo:**

No genetic changes were observed in laboratory tests using: mouse, hamster

Developmental toxicity

Exposure during pregnancy. Oral (rat) / Reduced body weight delays in development (at doses that produce effects in mothers)

Reproductive effects

Reproduction test. Oral (rat and mouse) / Effects on fertility and offspring / (smaller litter sizes, increased mortality in the offspring, affected organ(s), ovaries, testes, adrenal gland)

Human experience**General:**

May cause cholinesterase inhibition which has symptoms that could include fatigue, weakness, dizziness, nausea, blurred vision, headache, sweating, watery eyes, drooling, vomiting, tunnel vision, twitching, cramps, involuntary urination and/or defecation, muscle tremors, staggering gait, pinpoint pupils, drop in blood pressure, slow heartbeat, difficulty breathing, and possibly convulsions, coma, and death.

Human experience**Skin contact:**

Skin: dermatitis. Irritant but not a sensitizer. No skin allergy was observed

Human experience**Ingestion:**

Gastro-intestinal tract: irritation, nausea, vomiting, diarrhea. (extent of injury depends on severity of exposure)

Nervous system: limb weakness, nerve damage, degeneration.

SECTION 12: ECOLOGICAL INFORMATION**Chemical Fate and Pathway**

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

Data for Dibenzoyl peroxide (94-36-0)**Biodegradation:**

Readily biodegradable. (28 d) biodegradation 71 %

Octanol Water Partition Coefficient:

log Pow: = 3.2, at 72 °F (22 °C) pH = 7.02

Data for Phosphoric acid, tris(methylphenyl) ester (1330-78-5)

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Biodegradation:

Readily biodegradable. (28 d) biodegradation 80 %

Octanol Water Partition Coefficient:

log Pow: = 5.93

Ecotoxicology

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

Data for Dibenzoyl peroxide (94-36-0)**Aquatic toxicity data:**

Very toxic. Oncorhynchus mykiss (rainbow trout) 96 h LC50 = 0.0602 mg/l

Aquatic invertebrates:

Very toxic. Daphnia magna (Water flea) 48 h EC50 (Immobilization) = 0.110 mg/l

Algae:

Very toxic. Pseudokirchneriella subcapitata (green algae) 72 h ErC50 = 0.071 mg/l

Microorganisms:

Respiration inhibition / Activated sludge 30 min EC50 = 35 mg/l

Chronic toxicity to aquatic invertebrates:

Very toxic. Daphnia magna (Water flea) 21 d EC10 (Reproduction inhibition) = 0.001 mg/l

Chronic toxicity to aquatic plants:

Toxic. Pseudokirchneriella subcapitata (green algae) 72 h NOEC = 0.02 mg/l

Data for Phosphoric acid, tris(methylphenyl) ester (1330-78-5)**Aquatic toxicity data:**

Very toxic. Oncorhynchus mykiss (rainbow trout) 96 h LC50 = 0.6 mg/l

Aquatic invertebrates:

Very toxic. Daphnia magna (Water flea) 48 h EC50 = 0.15 mg/l

Algae:

Very toxic. Desmodesmus subspicatus (green algae) 72 h ErC50 = 0.4 mg/l

Microorganisms:

Respiration inhibition / Activated sludge 3 h EC50 > 1,000 mg/l

Chronic toxicity to fish:

Very toxic. Jordanella floridae (flagfish) 28 d NOEC = 0.01 mg/l

Chronic toxicity to aquatic invertebrates:

Toxic. Daphnia magna (Water flea) 21 d NOEC = 0.1 mg/l

Chronic toxicity to aquatic plants:

Toxic. Desmodesmus subspicatus (green algae) 72 h ErC10 = 0.016 mg/l

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SECTION 13: DISPOSAL CONSIDERATIONS**Waste disposal:**

Disposal via incineration is recommended. Dispose of in accordance with federal, state and local regulations. 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. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

Take appropriate measures to prevent release to the environment.

SECTION 14: TRANSPORT INFORMATION**US Department of Transportation (DOT)**

UN Number : 3108
Proper shipping name : Organic peroxide type E, solid
Technical name : (Dibenzoyl peroxide, (as a paste), <= 52%)
Class : 5.2
Marine pollutant : yes

International Maritime Dangerous Goods Code (IMDG)

UN Number : 3108
Proper shipping name : ORGANIC PEROXIDE TYPE E, SOLID
Technical name : (DIBENZOYL PEROXIDE, (AS A PASTE), <= 52%)
Class : 5.2
Marine pollutant : yes

SECTION 15: REGULATORY INFORMATION**Chemical Inventory Status**

US. Toxic Substances Control Act	TSCA	The components of this product are all on the Active TSCA Inventory.
Canadian Domestic Substances List (DSL)	DSL	All components of this product are on the Canadian DSL
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC (CN)	All components of this product are listed or exempted
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	All components of this product are listed or exempted

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Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	All components of this product are listed or exempted
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	All components of this product are listed or exempted
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	All components of this product are listed or exempted
Australian Inventory of Industrial Chemicals	AU AIICL	All components of this product are listed or exempted
Taiwan Chemical Substance Inventory (TCSI)	TCSI	All components of this product are listed or exempted

United States – Federal Regulations**SARA Title III – Section 302 Extremely Hazardous Chemicals:**

The components in this product are either not SARA Section 302 regulated or regulated but present in negligible concentrations.

SARA Title III - Section 311/312 Hazard Categories:

Organic peroxides
 Serious eye damage or eye irritation
 Respiratory or skin sensitisation
 Reproductive toxicity

SARA Title III – Section 313 Toxic Chemicals:

The following components are subject to reporting levels established by SARA Title III, Section 313:

<u>Chemical name</u>	<u>CAS-No.</u>	<u>De minimis concentration</u>	<u>Reportable threshold:</u>
Dibenzoyl peroxide	94-36-0	1.0 %	25000 lbs (Manufacturing and processing) 10000 lbs (Otherwise used (non-manufacturing/processing))

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantity (RQ):

<u>Chemical name</u>	<u>CAS-No.</u>	<u>Reportable quantity</u>
Benzoic acid	65-85-0	5000 lbs

United States – State Regulations

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California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive defects.

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

- H241 Heating may cause a fire or explosion.
- H242 Heating may cause a fire.
- H313 May be harmful in contact with skin.
- H317 May cause an allergic skin reaction.
- H320 Causes eye irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

Latest Revision(s):

Reference number:	200008690
Date of Revision:	01/16/2025
Date Printed:	01/16/2025

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The Company adheres to a strict policy that applies to the use of any of its products in medical device applications. This policy can be found at <https://www.arkema.com/global/en/social-responsibility/innovation-and-sustainable-solutions/responsible-product-management/medical-device-policy/> which is incorporated herein by reference and made a part hereof. Except as expressly authorized, the Company (i) has designated specific medical grade compositions for products used in medical device applications and Company products not so designated are not authorized for use in medical device applications and (ii) strictly prohibits the use of any of its products in medical device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Company does not design, manufacture and/or directly sell any medical devices. The Company does not co-design, or offer assistance to any purchaser of its products, in their design, manufacture and/or sale of products for medical devices. It is the sole responsibility of the manufacturer of medical devices to determine the suitability of all raw material, products and components, including any medical grade products, in order to ensure that the medical device is safe for end-use and complies with all applicable legal and regulatory requirements and to conduct all necessary tests and inspections.

Product code: 021000

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