

Arkema Inc.

Meeting Your Needs For Organic Peroxides

Count on an **industry leader**
to meet your **Organic Peroxides** needs.

Arkema offers a complete line of high quality organic peroxides worldwide.

Extensive Product Line | We offer a full line of products to meet your needs in multiple formulations and package configurations. Our extensive line of products will provide you with the choice and flexibility you want, along with the quality that you need.

Security of Supply | With 10 manufacturing sites covering the Americas, Europe and Asia, we are able to supply large global customers in many locations. You won't have to worry about availability or consistency of product because most of our products are made in two or more plants, significantly reducing the risk of a supply disruption.

Technical Application Support | Our technical support groups in King of Prussia, Pennsylvania, USA and Lyon, France, offer outstanding experience and technical know-how to ensure that our customers select the best products for their needs.

Availability of Technical Information | Technical information, such as bulletins for each peroxide group which detail specifications, physical properties and safety data, can be found by logging onto our website, www.Luperox.com.

Product Stewardship | To ensure that our customers use our products safely, we will train your employees, assist you in designing storage facilities that meet all codes, and perform periodic safety audits. We also relieve our customers of handling and disposal issues by offering a program to recycle empty packaging materials.

The Newest Product Developments | We are continually introducing new products to the market thanks to our extensive research and development facilities; which in turn improves our customers' profitability by reducing production costs and helping them to manufacture more valuable products.

Real Customer Service |

When you need answers or technical help, we have people with the knowledge, experience, and training to give you what you need.

It may be just a question about logistics, or it may be new product advice on how to speed up or cool down your process to make it more productive for you.

Wherever you are in your product development or whatever kind of technical assistance you may need, you'll find you will get through to people who really can make a positive difference for you.

Quality...The Final Word | We define quality as a customer-focused approach to everything we do: providing consistent product; the best selection of products; dependable delivery; outstanding product performance; and excellent sales and technical support.

Ultimately, our measure of quality is your complete satisfaction. We are committed to:

- Unequaled experience and technical know-how
- Ready availability and consistency of product around the world
- Leading technology and manufacturing capabilities
- The sustainable development of products
- Comprehensive safe handling and storage programs
- ISO-9000 driven total quality programs

At Arkema Inc., quality is an attitude that can be found in everything we do – from research & development and manufacturing to marketing, sales and order entry, to packaging and distribution.

For literature, MSDS, or technical information:
Visit our website at www.Luperox.com
or call us at **1-800-558-5575**.

Luperox is a registered trademark of Arkema Inc.

Organic Peroxide Selection

Commercially available peroxides from seven different structural groups provide a broad range of reactivity. Polymerization initiators, from very fast hydroxy peresters for rapid kinetics in vinyl polymerization, through high temperature dialkyl peroxides and hydroperoxides used as finishing catalysts, are available. Crosslinking reactions are possible in polyethylene and elastomers using dialkyl peroxides and peroxyketals. By making use of promotion systems in polyester resins, ketone peroxides and benzoyl peroxide can be used at room temperature.

The following tables describe Arkema commercially available peroxides sorted into structural groups. Column headings include the chemical name as well as trade names for each product, a brief description of the product, an indication of the product's reactivity as percent active oxygen by weight, temperatures for ten and one hour half-lives and critical safety and storage requirements.

Many parameters must be considered when choosing a peroxide for a given application. Two of the more important ones are provided in this catalog: the SADT and the half-life temperature. The SADT is officially recognized as the lowest temperature at which the product, in the commercial package and concentration, will undergo a self-accelerating decom-

position. It is determined in the largest commercially offered package or using the Heat Accumulation Storage Test (HAST). The SADT is the temperature that must not be reached during transport, storage, and handling of the peroxide in order to be safe.

Half-Life

Half-life data is provided for comparison purposes to select among different peroxides for use. Half-life is defined as the time it takes for one half of a given quantity of peroxide in dilute solution to decompose at a given temperature. The decomposition rate is first order and is characterized at a given temperature by the equation $-dC/dt = kC$ where C is peroxide concentration, t is time and k is the first-order rate constant. For convenience in comparing the stability of peroxides in dilute solutions, peroxides are commonly listed according to the temperatures at which they have half-lives of 10 hours or 1 hour. The higher the temperature corresponding to the half-life, the more stable the peroxide. Half-life temperatures can vary based on the manner in which they are determined, especially the solvent used. More detailed information about half-life can be found in other product bulletins available from our website at www.Luperox.com, or by calling 1-800-558-5575.

glossary of terms

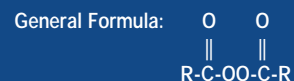
OMS - Odorless Mineral Spirits
NA - Not Applicable

NE - Not Evaluated
Ctn - Container

Pref - Preferred
EPR - Ethylene Propylene Rubber

Highlighted products require refrigerated (temperature controlled) shipment and storage

DIACYL PEROXIDES



Chemical Name (CAS Registry)	Trade Name	HALF-LIFE DATA		% Active Oxygen (by weight)	SADT, °C	Maximum Storage Temperature	Description
		10 hr. - T1/2°C	1 hr. - T1/2°C				
Decanoyl Peroxide (762-12-9)	Luperox® DEC	65	83	≥4.60	43 (50# ctn)	15°C/60°F	≥98.5% Flaked Solid
Lauroyl Peroxide (105-74-8)	Luperox LP	64	81	≥3.95	51 (65# ctn)	27°C/80°F	≥98.5% Flaked Lump-Free Solid
Succinic Acid Peroxide (123-23-9)	Luperox SAP	66	90	3.96-4.85	66 (1# bag)	0°C/32°F	58-71% Frozen, Wet Solid
Benzoyl Peroxide (94-36-0)	Luperox A98	73	92	≥6.47	68 (1# ctn)	38°C/100°F	≥98% Granular Dry Solid
	Luperox A75	73	92	4.82-5.08	71 (25# ctn)	38°C/100°F	73-77% Granular Wet Solid
	Luperox A70S	73	92	4.36-4.76	82 (50# ctn)	38°C/100°F	66-72% Granular Wet Solid, USP Grade
	Luperox A75FP	73	92	4.82-5.09	71 (25# ctn)	38°C/100°F	73-77% Fine Particle Granular Wet Solid, USP Grade
	Luperox AFR40	73	92	2.64-2.77	55 (40# ctn)	38°C/100°F	40-42% Pourable Paste
	Luperox ANS55	73	92	3.63-3.83	54 (50# ctn)	38°C/100°F	55-58% Paste with Plasticizer
	Luperox ATC50	73	92	3.30-3.44	NE	38°C/100°F	50-52% Paste with Tricresyl Phosphate
Luperox ACP35	73	92	2.31-2.44	NE	38°C/100°F	35-37% Powder, Blend with Inorganic Phosphates	

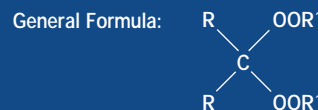
DIALKYL PEROXIDES

General Formula: (R-OO)_nR'
n = 1 or 2

Chemical Name (CAS Registry)	Trade Name	HALF-LIFE DATA		% Active Oxygen (by weight)	SADT, °C	Maximum Storage Temperature	Description
		10 hr. - T1/2°C	1 hr. - T1/2°C				
Dicumyl Peroxide (80-43-3)	Luperox® DCP	117	137	≥5.86	91 (40# ctn)	38°C/100°F	≥98% Powder
	Luperox DC40P	117	137	2.34-2.46	NE	38°C/100°F	39.5-41.5% Solid with Inert Filler, Powder
	Luperox DC40KEP	117	137	2.34-2.46	NE	38°C/100°F	39.5-41.5% Solid with Kaolin Clay, Powder
	Luperox DC40MG	117	137	2.34-2.46	NE	38°C/100°F	39.5-41.5% Solid with EPR, Granules
	Luperox DC40KEP-HP	117	137	2.07-2.43	NE	38°C/100°F	35-41% with Kaolin Clay & Scorch-Reducing Additives, Powder
	Luperox DC40MF	117	137	2.34-2.46	NE	38°C/100°F	40% Solid with EPR, Sheets
2,5-Di(t-butylperoxy)- 2,5-dimethylhexane (78-63-7)	Luperox 101	120	140	10.25-10.47	86 (30# ctn)	38°C/100°F	93-95% Liquid ¹
	Luperox 101XL45	120	140	4.96-5.29	82 (100# ctn)	38°C/100°F	45-48% Solid on Inert Filler, Powder
	Luperox HP101XLP	120	140	4.68-5.01	82 (100# ctn)	38°C/100°F	42.5-45.5% with Solid Inert Filler and Scorch-Reducing Additives, Powder
	Luperox 101PP20	120	140	2.09-2.31	~ 82 (100# ctn)	38°C/100°F	19-21% Dispersion on Polypropylene Powder
t-Butyl Cumyl Peroxide (3457-61-2)	Luperox 801	124	144	≥7.30	85 (35# ctn)	38°C/100°F	≥95% Liquid
α,α'-Bis(t-butylperoxy) diisopropylbenzene Mixture of Isomers (25155-25-3)	Luperox F	119	139	≥9.17	NE	38°C/100°F	≥97% Flakes
	Luperox F40KEP	119	139	3.74-3.93	NE	38°C/100°F	39.5-41.5% Solid with Kaolin Clay, Powder
	Luperox F40MG	119	139	3.74-3.93	NE	38°C/100°F	39.5-41.5% Solid with EPR, Granules
	Luperox F40KEP-HP	119	139	3.02-3.59	NE	38°C/100°F	32-38% with Kaolin Clay & Scorch-Reducing Additives, Powder
	Luperox F40MF	119	139	3.74-3.93	NE	38°C/100°F	39.5-41.5% Solid with EPR, Sheets
	Luperox F40M-SP	119	139	3.74-3.93	NE	38°C/100°F	40% Solid with EPR & Scorch-Reducing Additives, Granules
	Luperox F-CST	119	139	NE	NE	38°C/100°F	Peroxide with Scorch-Reducing & Performance Additives, Powder
	Luperox MIX	119	139	3.46-3.55	NE	38°C/100°F	36-38% Meltable Paste with Additives
	Luperox F90P	119	139	8.36-8.55	NE	38°C/100°F	88-90% with Silica Powder
	Luperox F40P	119	139	3.74-3.93	NE	38°C/100°F	39.5-41.5% Solid with Calcium Carbonate Powder
Di(t-amyl) Peroxide (10508-09-5)	Luperox DTA	123	143	≥8.81	75 (30# ctn)	38°C/100°F	≥96% Liquid
Di(t-butyl) Peroxide (110-05-4)	Luperox DI	129	149	≥10.78	82 (30# ctn)	38°C/100°F	≥98.5% Liquid
2,5-Di(t-butylperoxy)- 2,5-dimethyl-3-hexyne (1068-27-5)	Luperox 130XL45	131	152	5.03-5.36	88 (100# ctn)	38°C/100°F	45-48% Solid on Inert Filler, Powder

Notes: ¹Also available diluted in OMS or mineral oil

DIPEROXYKETALS



Chemical Name (CAS Registry)	Trade Name	HALF-LIFE DATA		% Active Oxygen (by weight)	SADT, °C	Maximum Storage Temperature	Description
		10 hr. - T1/2°C	1 hr. - T1/2°C				
1,1-Di(t-butylperoxy)-3,3,5-trimethylcyclohexane (6731-36-8)	Luperox® 231	96	115	≥9.73	60 (HAST)	32°C/90°F	≥92% Liquid
	Luperox 231XL40	96	115	4.07-4.39	60 (100# ctn)	32°C/90°F	38.5-41.5% on Solid Inert Filler, Powder
1,1-Di(t-butylperoxy)-cyclohexane (3006-86-8)	Luperox 331M80	97	116	9.59-9.83	65 (35# ctn)	32°C/90°F	78-80% in OMS
1,1-Di(t-amylperoxy)-cyclohexane (15667-10-4)	Luperox 531M80	93	112	8.76-8.99	60 (30# ctn)	32°C/90°F	79-81% in OMS
n-Butyl 4,4-Di(t-butylperoxy)valerate	Luperox 230XL40	109	129	3.78-3.97	60 (20# ctn)	38°C/100°F	39.5-41.5% on Solid Inert Filler, Powder
Ethyl 3,3-Di(t-amylperoxy)butanoate (67567-23-1)	Luperox 533M75	112	132	7.39-7.59	80 (35# ctn)	38°C/100°F	74-76% in OMS
Blend of 40% 1,1-Di(t-butylperoxy)-cyclohexane, (3006-86-8) & 25% t-Butyl Peroxy-2-ethylhexanoate, (3006-82-4)	Luperox M33	N/A	N/A	6.70-6.97	NE	15°C/59°F	OMS Diluent
Ethyl 3,3-Di(t-butylperoxy)butyrate (55794-20-2)	Luperox 233M75	114	134	8.21-8.42	80 (35# ctn)	38°C/100°F	75-77% in OMS

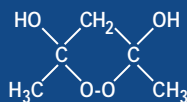
HYDROPEROXIDES



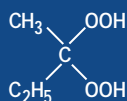
Chemical Name (CAS Registry)	Trade Name	HALF-LIFE DATA		% Active Oxygen (by weight)	SADT, °C	Maximum Storage Temperature	Description
		10 hr. - T1/2°C	1 hr. - T1/2°C				
Cumene Hydroperoxide (80-15-9)	Luperox® CU90	158	188	9.14-9.46	82 (5 gal ctn)	38°C/100°F	87-90% Liquid
t-Butyl Hydroperoxide (75-91-2)	Luperox TBH70X	172	201	12.25-12.61	- 88 (35# ctn)	38°C/100°F	69-71% in Water

KETONE PEROXIDES

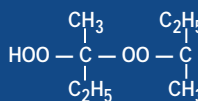
General Formula:



224



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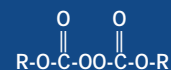
DDM-9, DDM-30, DHD-9, Delta-X-9

Chemical Name (CAS Registry)	Trade Name	HALF-LIFE DATA		% Active Oxygen (by weight)	SADT, °C	Maximum Storage Temperature	Description
		10 hr. - T1/2°C	1 hr. - T1/2°C				
Methyl Ethyl Ketone Peroxide mixture (1338-23-4)	Luperox® DDM-9	NA	NA	8.70-9.0	75 (45# ctn)	38°C/100°F	Mixture in Organic Diluent ¹
	Luperox DDM-30	NA	NA	5.50-6.05	>85 (8# ctn)	38°C/100°F	
	Luperox DHD-9	NA	NA	8.70-9.0	85 (8# ctn)	38°C/100°F	
	Luperox Delta-X-9	NA	NA	8.70-9.0	85 (8# ctn)	38°C/100°F	
2, 4-Pentanedione Peroxide (37187-22-7)	Luperox 224	NA	NA	4.00-4.15	54 (42# ctn)	38°C/100°F	Proprietary F.R. Formation in Mixed Organic Diluent
Blend of Methyl Ethyl Ketone Peroxide (1338-23-4) & Cumene Hydroperoxide (80-15-9)	Luperox KC70	NA	NA	8.86-9.17	- 85 (8# ctn)	38°C/100°F	Mixed Organic Diluent ¹

Notes: ¹ Red dyed product also available

PEROXYDICARBONATES

General Formula:



Chemical Name (CAS Registry)	Trade Name	HALF-LIFE DATA		% Active Oxygen (by weight)	SADT, °C	Maximum Storage Temperature	Description
		10 hr. - T1/2°C	1 hr. - T1/2°C				
Di(n-Propyl) Peroxydicarbonate (16066-38-9)	Luperox® 221	50	66	≥7.68	-7 (9# ctn)	-23°C/-10°F	≥99% Liquid
Di(sec-Butyl) Peroxydicarbonate (19910-65-7)	Luperox 225V60	51	69	4.03-4.17	20 (35# ctn)	-5°C/23°F	59-61% In Proprietary Stabilizing Diluent
Di(2-Ethylhexyl) Peroxydicarbonate (16111-62-9)	Luperox 223V75	49	66	3.46-3.56	25 (7# ctn)	-5°C/23°F	75-77% In Proprietary Stabilizing Diluent
	Luperox 223S	49	66	≥4.52	15 (40# ctn)	-18°C/0°F	≥98% Liquid, Stabilized

PEROXYESTERS

General Formula:



Chemical Name (CAS Registry)	Trade Name	HALF-LIFE DATA		% Active Oxygen (by weight)	SADT, °C	Maximum Storage Temperature	Description
		10 hr. - T1/2°C	1 hr. - T1/2°C				
3-Hydroxy-1,1-dimethylbutyl Peroxyneodecanoate (95718-78-8)	Luperox® 610M75	37	54	4.10-4.22	20 (HAST)	-18°C/0°F	74-76% in OMS
α-Cumyl Peroxyneodecanoate (26748-47-0)	Luperox 188M75	38	56	3.86-3.99	15 (37# ctn)	-18°C/0°F	
t-Amyl Peroxyneodecanoate (68299-16-1)	Luperox 546M75	46	64	4.58-4.71	25 (30# ctn)	-10°C/14°F	
t-Butyl Peroxyneodecanoate (26748-41-4)	Luperox 10M75	48	66	4.85-4.98	27 (35# ctn)	-10°C/14°F	
	Luperox 10	48	66	≥6.22	21 (30# ctn)	-10°C/14°F	≥95% Liquid
t-Amyl Peroxypivalate (29240-17-3)	Luperox 554M75	55	74	6.29-6.46	30 (30# ctn)	-7°C/20°F	74-76% in OMS
t-Butyl Peroxypivalate (927-07-1)	Luperox 11M75	58	76	6.80-6.98	29 (35# ctn)	0°C/32°F ¹	74-76% in OMS
2,5-Di(2-ethylhexanoylperoxy)-2,5-dimethylhexane (13052-09-0)	Luperox 256	73	91	≥6.70	40 (35# ctn)	15°C/60°F	≥90% Liquid
t-Amyl Peroxy-2-ethylhexanoate (686-31-7)	Luperox 575	75	92	≥6.67	45 (35# ctn)	10°C/50°F	≥96% Liquid
	Luperox 575M75	75	92	5.14-5.28	45 (35# ctn)	10°C/50°F	74-76% in OMS
t-Butyl Peroxy-2-ethylhexanoate (3006-82-4)	Luperox 26	77	95	≥7.18	42 (35# ctn)	10°C/50°F	≥97% Liquid
	Luperox 26M50	77	95	3.70-3.90	54 (35# ctn)	15°C/60°F	50-54% in OMS
t-Amyl Peroxyacetate (690-83-5)	Luperox 555M60	100	120	6.46-6.68	75 (35# ctn)	38°C/100°F	59-61% in OMS
t-Butyl Peroxyacetate (107-71-1)	Luperox 7M75	102	123	8.96-9.20	79 (7# ctn)	38°C/100°F	74-76% in OMS
	Luperox 7M50	102	123	5.93-6.18	85 (7# ctn)	38°C/100°F	49-51% in OMS
t-Butyl Peroxybenzoate (614-45-9)	Luperox P	104	125	≥8.07	60 (HAST)	38°C/100°F	≥98% Liquid
OO-(t-Amyl) O-(2-Ethylhexyl) Monoperoxy carbonate (70833-40-8)	Luperox TAEC	99	117	≥5.65	65 (35# ctn)	38°C/100°F (<85°F pref)	≥92% Liquid
OO-(t-Butyl) O-Isopropyl Monoperoxy carbonate (2372-21-6)	Luperox TBICM75	99	118	6.72-6.90	60 (35# ctn)	38°C/100°F (<85°F pref)	74-76% in OMS
OO-(t-Butyl) O-(2-Ethylhexyl) Monoperoxy carbonate (34443-12-4)	Luperox TBEC	100	121	≥6.17	65 (35# ctn)	38°C/100°F (<85°F pref)	≥95% Liquid
Polyether Poly-t-butylperoxy Carbonate	Luperox JWEB50	100	119	3.32-3.45	70 (HAST)	30°C/86°F	50-52% in Ethylbenzene
t-Butyl Peroxy-3,5,5-trimethylhexanoate (13122-18-4)	Luperox 270XL40	102	122	2.71-2.85	60 (35# ctn)	30°C/86°F	39-41% on Inert Filler, Powder

Notes: ¹ Must also be stored above - 18°C/0°F

Half-Life Comparison and Typical Applications

Trade Name	HALF-LIFE DATA		TYPICAL APPLICATIONS					Trade Name	HALF-LIFE DATA		TYPICAL APPLICATIONS					
	1 hr. HLT, °C	10 hr. HLT, °C	Polymerization: Bulk, Solution, Suspension	Polymerization: Emulsion	Polymer Modification Thermoplastic Crosslinking	Curing Elastomers	Polyester Resins High Temperature Cure		Polyester Resins Room Temperature Cure	1 hr. HLT, °C	10 hr. HLT, °C	Polymerization: Bulk, Solution, Suspension	Polymerization: Emulsion	Polymer Modification Thermoplastic Crosslinking	Curing Elastomers	Polyester Resins High Temperature Cure
Luperox® 610M75	54	37	•					Luperox® 7M50	123	102	•					
Luperox 188M75	56	38	•					Luperox 7M75	123	102	•					
Luperox 546M75	64	46	•					Luperox P	125	104	•			•		
Luperox 10	66	48	•				•	Luperox 230XL40	129	109			•	•		
Luperox 10M75	66	48	•				•	Luperox 533M75	132	112	•		•			
Luperox 223S	66	49	•					Luperox 233M75	134	114	•					
Luperox 223V75	66	49	•				•	Luperox DC40KEP	137	117				•		
Luperox 221	66	50	•					Luperox DC40KEP-HP	137	117				•		
Luperox 225V60	69	51	•					Luperox DC40MF	137	117				•		
Luperox 554M75	74	55	•					Luperox DC40MG	137	117				•		
Luperox 11M75	76	58	•					Luperox DC40P	137	117			•	•		
Luperox LP	81	64	•				•	Luperox DCP	137	117	•		•	•	•	
Luperox DEC	83	65	•				•	Luperox DCSC	137	117	•		•	•	•	
Luperox SAP	90	66	•	•				Luperox F	139	119			•	•	•	
Luperox 256	91	73	•				•	Luperox F40KEP	139	119			•	•	•	
Luperox A70S	92	73	•				•	Luperox F40KEP-HP	139	119				•		
Luperox A75	92	73	•				•	Luperox F40MF	139	119				•		
Luperox A75FP	92	73	•				•	Luperox F40M-SP	139	119				•		
Luperox A98	92	73	•		•	•	•	Luperox F-CST	139	119				•		
Luperox 575	92	75	•				•	Luperox F40MG	139	119				•		
Luperox 575M75	92	75	•				•	Luperox F40P	139	119				•		
Luperox 26	95	77	•				•	Luperox F90P	139	119				•		
Luperox 26M50	95	77	•				•	Luperox MIX	139	119			•	•		
Luperox 531M80	112	93	•					Luperox 101	140	120	•		•	•	•	
Luperox 231	115	96	•		•	•	•	Luperox 101PP20	140	120			•			
Luperox 231XL40	115	96			•	•		Luperox 101XL45	140	120			•	•	•	
Luperox 331M80	116	97	•				•	Luperox HP101XLP	140	120			•	•		
Luperox TAEC	117	99	•				•	Luperox DTA	143	123	•		•	•	•	
Luperox TBICM75	118	99	•			•	•	Luperox 801	144	124			•	•	•	
Luperox 555M60	120	100	•				•	Luperox DI	149	129	•		•	•	•	
Luperox JWEB50	119	100	•				•	Luperox 130XL45	152	131			•	•	•	
Luperox TBEC	121	100	•			•	•	Luperox CU90	188	158	•	•				•
Luperox 270XL40	122	102			•	•		Luperox TBH70X	201	172	•	•				

OFFICE AND MANUFACTURING LOCATIONS

U.S.A.

Office:

Arkema Inc.

2000 Market Street
Philadelphia, PA 19103
Phone: 1-800-558-5575
Fax: 1-215-419-7413

Plants:

Arkema Inc.

18000 Crosby-Eastgate Road
Crosby, Texas 77532
Phone: 1-281-328-3561
1-800-526-5544
Fax: 1-281-328-4052

Arkema Inc.

Site address:
3289 Genesee Street
Route 63
Piffard, New York 14533
Mailing address:
P.O. Box 188
Geneseo, New York 14454
Phone: 1-585-243-0330
Fax: 1-585-243-2649

Canada

Office:

Arkema Canada Inc.

700 Third Line
Oakville, Ontario L6J 5A3
Phone : 1-905-827-9841
Fax : 1-905-827-7913

Mexico

Office:

Arkema Iniciadores s.a. de c.v.

Rio San Javier No. 10 Fracc.,
Viveros Del Rio, Tlalnepantla
Edo de Mexico CP 54060
Phone: 52-55-53 66 41 62
Fax: 52-55-53 62 83 36

Plant:

Luperox Iniciadores s.a. de c.v.

Km. 6.5 Carr. Nanchital-Las Choapas
El Chapo, Ixhuatlan del Sureste
Ver., Mexico 96360
Phone: 52-921 216 07 39 to 43
Fax: 52-921 216 07 42

Brazil

Office:

Arkema Brasil Quimica

Av. Ibirapuera , 2033 - Moema CEP :
04029-901, S. Paulo, SP, Brasil
Phone : 55-11-5056-8522
Fax : 55-11-5051-4738

Plant:

Arkema Brasil Quimica

Rio Claro Plant Av. Pennwalt, 1001
Dist. Industrial, CEP 13505-650
Rio Claro, SP, Brazil
Phone: 55-19-3522-5302
Fax: 55-19-3527-0300

France

Office:

Arkema

4-8 cours Michelet
La Defense 10
92091 Paris La Defense Cedex, France
Telephone: 33-1-49-00-80-80
Fax: 33-1-49-00-83-96

Plant:

Arkema

121 route de Lille
62218 Loison sous Lens, France
Phone: 33-3-21-77-42-00
Fax: 33-3-21-77-43-00

Germany

Arkema GmbH

Niederlassung Gunzburg
Denzinger Strasse 7
89312 Gunzburg, Germany
Phone: 49-8-221-98-0
Fax: 49-8-221-98-122

Italy

Arkema S.r.l.

Piazza Donegani 5/6
I-15047
Spinetta-Marengo, Italy
Phone: 39-0131-215111
Fax: 39-0131-216262

India

Office:

Arkema Peroxides India Pvt. Ltd.

Balmer Lawrie House
628 Anna Salai,
Teynampet, Chennai- 600018, India
Phone: 91-44-24332186
91-44-24332140
91-44-24331243
Fax: 91-44-24332246
email: Atopil@Arkemagroup.com

Plant:

Arkema Peroxides India Pvt. Ltd.

Semmankuppam
Cuddalore 607 005 India
Telephone: 91-4142-239901
91-4142-239902
Fax: 91-4142-239900

Japan

Office:

Arkema Yoshitomi Ltd.

4-9 Hiranomachi, 2-chome, Chuo-Ku
Osaka, 541-0046 Japan
Phone: 81-6-6201-2646
Fax: 81-6-6232-0910

Plant:

Arkema Yoshitomi Ltd.

955 Koivai Yoshitomi-machi
Chikujo-gun, Fukuoka 871-0801, Japan
Phone: 81-979-23-8945
Fax: 81-979-23-4381

Korea

Office:

Arkema

Room 1401, Leema Bldg.
146-1 Soosong-dong, Chongro-Ku,
Seoul, Korea
Phone: 82-2-3703-6711
Fax: 82-2-736-7175

Plant:

SEKI-Arkema

8B 16L Chilseo Industrial Complex
Haman-Gun
Kyoungnam, Korea 637 940
Phone: 82-55-587-8060
Fax: 82-55-587-8062

China

Office:

Arkema Shanghai

Representative Office

Unit 2801-06, Hong Kong Plaza
283 Huai Hai Road (M)
Shanghai 200021, P.R. China
Phone: 86-21-6386-3028
Fax: 86-21-6390-6266

New Plant:

Arkema Changshu

Fushan, Haiyu Town, Changshu City,
JIANGSU 215522, CHINA
Phone: 86-512-52322688
Fax: 86-512-52322788



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Arkema Inc. • 2000 Market Street • Philadelphia, PA 19103 • Office: (215) 419-7000 • Toll Free: 800-628-4453 • Fax: (215) 419-7944 • www.Arkema.Inc.Chemicals.com
Arkema • 4-8 Cours Michelet • La Defense 10 • F-92091 Paris • La Defense Cedex, France • Phone: (33) 1-49-00-75-32 • Fax: (33) 1-49-00-50-30 • www.arkemagroup.com