



Polymer Manufacturing & Processing

Product Range

We initiate value

United Initiators ("UI") is the largest, focused global producer of specialty chemical initiators and the only player worldwide providing a full range of both organic peroxides and persulfates (inorganic peroxides). We are the leading manufacturer of persulfates and among the top three suppliers of organic peroxides worldwide. Our network allows us to serve our customers both on a local and global scale. Supply reliability and quality are critical when it comes to peroxides and this is one of the key factors why customers choose United Initiators.

Our products are essential ingredients for many applications and products in our daily life and are necessary to produce a large range of polymers and polymer-based materials. The application of our products goes well beyond polymers. They are used in consumer areas such as hair bleaching, disinfection, denture cleansing and tooth whitening. Industrial applications include etching of printed circuit boards, chemical synthesis, oil & gas exploration, soil remediation and many more. Continuous improvement and innovation on all levels enables us to effectively respond to changing and growing market needs.

Safety is a very crucial factor to be successful in our industry. United Initiators adheres to highest safety standards in production and the entire supply chain. We offer all our customers in-depth service and training to handle our products in a safe and efficient manner. In our daily global operations our continuous focus is on maintaining high environmental standards. Sustainability is another focal point within our organization and we are committed to optimizing our processes and enhancing our energy efficiency.

It is among our primary goals to serve our customers with products of consistent quality and highly reliable services. We continuously optimize our operations and supply chain to assure high safety and overall reliability. Our global footprint allows us to offer services both to regional and global customers in an effective manner.

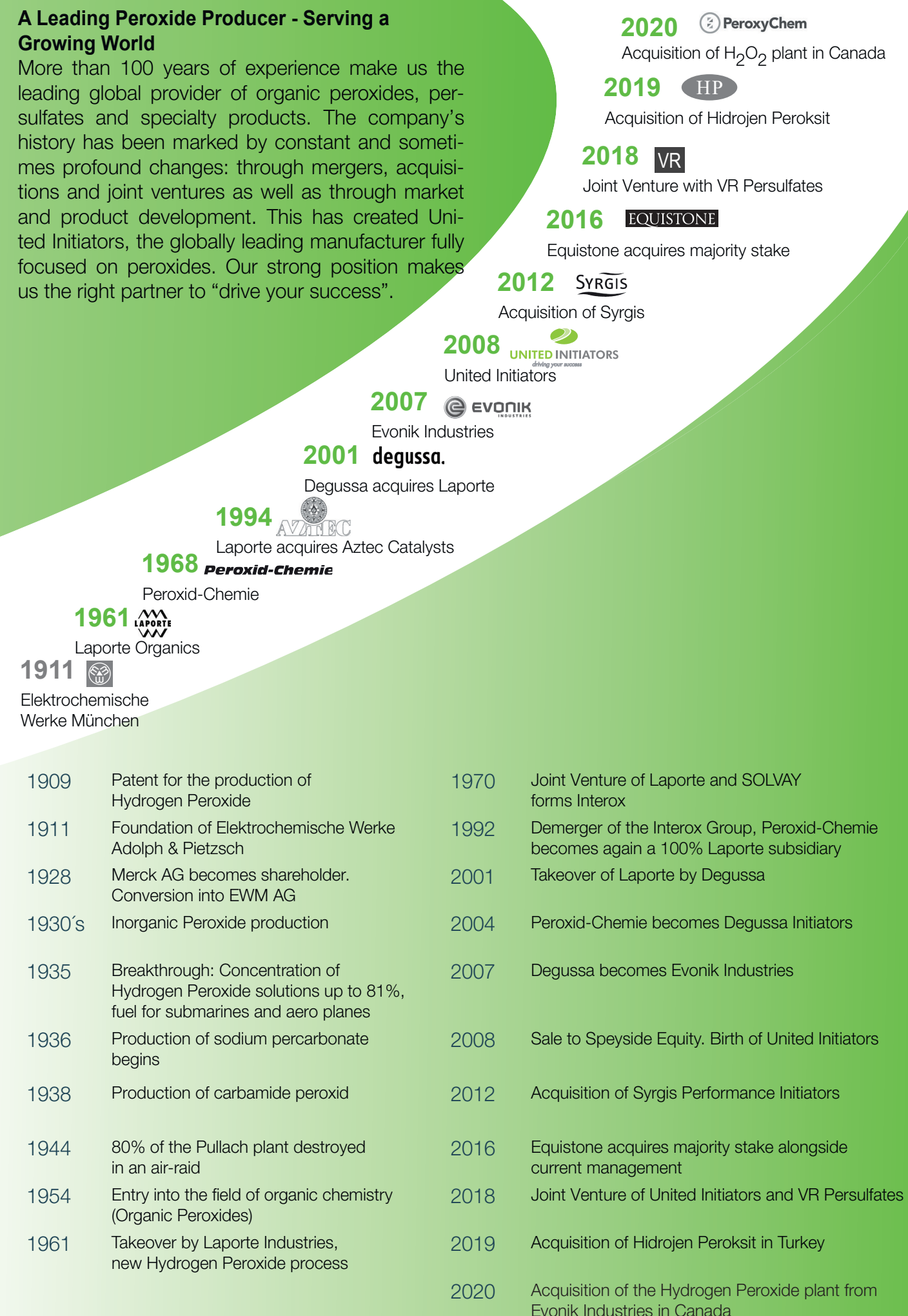
Locations

United Initiators is a global company with headquarters in Pullach/Germany and operations in various sites in North America, Asia and Australia.

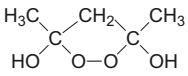
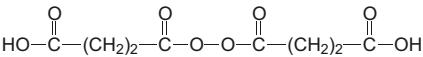
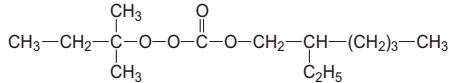
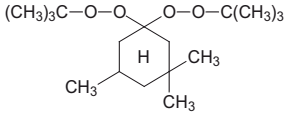
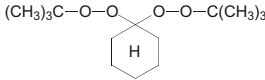
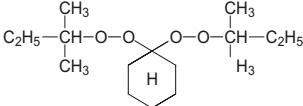
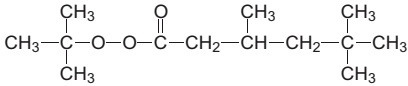


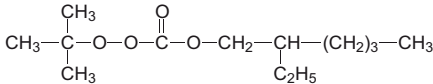
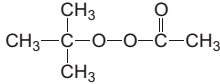
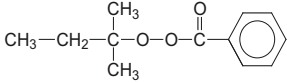
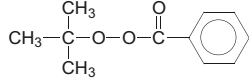
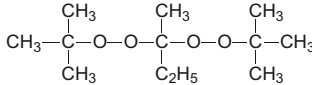
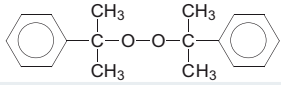
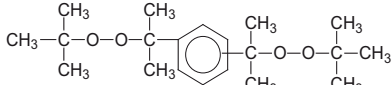
A Leading Peroxide Producer - Serving a Growing World

More than 100 years of experience make us the leading global provider of organic peroxides, persulfates and specialty products. The company's history has been marked by constant and sometimes profound changes: through mergers, acquisitions and joint ventures as well as through market and product development. This has created United Initiators, the globally leading manufacturer fully focused on peroxides. Our strong position makes us the right partner to "drive your success".

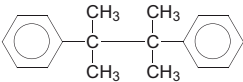
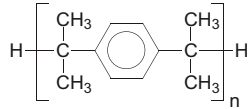


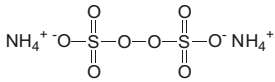
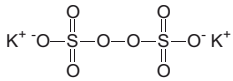
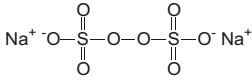
PRODUCT CODE	CHEMICAL STRUCTURE	SUPPLY FORM	PEROXIDE CONTENT	ACTIVE OXYGEN	STANDARD PACKAGING	SAFETY INFORMATION	Tc (Control Temperature)	min. Storage Temperature	max. Storage Temperature	APPLICATION	PVC	Polyolefins	Crosslinking	Curing of Thermoset Resins	Styrenics	Acrylics	Emulsion Polymerisation	Others
Organic Peroxides			%	%		°C/°F	°C/°F		°C/°F									
Dibenzoyl peroxide (CAS no. 94-36-0)																		
BENOX®A-75		powder, water damped	75	4.95	cartons	70/158	–	5/41	30/86						●	●	●	
BENOX®C-50		50%, powder with phthalate	50	3.3	cartons, minibags	60/140	–	–	30/86				●		●			
BENOX®C-50S		50%, powder with phthalate, chalk	50	3.3	cartons, minibags	60/140	–	–	30/86				●		●			
BENOX®C-50PF		50% BPO powder with phthalate-free, free flowing (chalk)	50	3.3	cartons, minibags	60/140	–	–	30/86				●		●			
BP-40-SAQ		40% aqueous suspension	40	2.7	IBC	80/176	–	0/32	30/86				●				●	
BENOX®L-40LV-EU		40 %, sprayable BPO dispersion	40	2.6	HDPE canisters	50/120		0/25	25/77				●					
tert-Amyl peroxy-2-ethylhexanoate (CAS no. 686-31-7)																		
TAPEH		liquid, technically pure	99	6.9	HDPE canisters	40/104	20/68	–	10/50		●		●	●	●		●	
TAPEH-75-AL1 (US)		75%, solution in OMS	75	5.2	HDPE canisters	40/104	20/68	–	10/50		●				●			
tert-Butyl peroxy-2-ethylhexanoate (CAS no. 3006-82-4)																		
TBPEH		liquid, technically pure	>99	7.3	HDPE canisters	40/104	20/68	–	10/50		●		●	●	●		●	
TBPEH-50-AL		50%, solution in isododecane	50	3.7	IBC	40/104	30/86	–	10/59		●							
TBPEH-30-AL		30%, solution in isododecane	30	2.2	IBC	40/104	30/86	–	10/50		●							
TBPEH-50-AL1 (US)		50%, solution in OMS	50	3.7	HDPE canisters	40/104	30/86	–	15/59		●							
TBPEH-LA-M3		liquid mixture	90	6.7	HDPE canisters	40/104	20/68	–	15/59				●					
Methyl isobutyl ketone peroxide (CAS no. 37206-20-5)																		
CUROX®I		various grades see separate Thermoset brochures												●				
Methyl ethyl ketone peroxide (CAS no. 1338-23-4)																		
CUROX®M		various grades see separate Thermoset brochures												●				

PRODUCT CODE	CHEMICAL STRUCTURE	SUPPLY FORM	PEROXIDE CONTENT	ACTIVE OXYGEN	STANDARD PACKAGING	SAFETY INFORMATION	Tc (Control Temperature)	min. Storage Temperature	max. Storage Temperature	APPLICATION	PVC	Polyolefins	Crosslinking	Curing of Thermoset Resins	Styrenics	Acrylics	Emulsion Polymerisation	Others
Organic Peroxides			%	%		°C/°F	°C/°F		°C/°F									
Acetylacetone peroxide (CAS no. 37187-22-7)																		
CUROX®A		various grades see separate Thermoset brochures																
Disuccinoyl peroxide (CAS no. 123-23-9)																		
SUCP-70-W		frozen, water damped	70	4.8	HDPE boxes or cartons	30/86	10/50	–	–10/14									
<i>tert</i> -Amyl peroxy-2-ethylhexylcarbonate (CAS no. 70833-40-8)																		
TAPEHC		liquid, technically pure	95	5.8	HDPE canisters	55/131	–	–	20/68									
CUROX®SOLAR AC3		liquid, technically pure	97	5.9	HDPE canisters	55/131	–	–	20/68									
1,1-Di(<i>tert</i> -butyl peroxy)-3, 3, 5- trimethylcyclohexane (CAS no. 6731-36-8)																		
TMCH-90-AL (AL3)*		90%, solution in isododecane	90	9.4	HDPE canisters	70/158	–	–	30/86									
TMCH-50-AL		50%, solution in isododecane	50	5.3	HDPE canisters	70/158	–	–	30/86									
TMCH-90-WO		90%, solution in white oil	90	9.4	HDPE canisters	70/158	–	–	30/86									
TMCH-HA-M1		liquid mixture	75	5.8	HDPE canisters	55/131	20/68	–	20/68									
1,1-Di(<i>tert</i> -butyl peroxy) cyclohexane (CAS no. 3006-86-8)																		
CH-80-AL (AL3) *		80%, solution in isododecane	80	9.8	HDPE canisters	60/140	–	–	30/86									
CH-50-WO		50%, solution in white oil	50	6.2	HDPE canisters	70/158	–	–	30/86									
1,1-Di(<i>tert</i> -amylperoxy)cyclohexane (CAS no. 15667-10-4)																		
ACH-80-AL3		80%, solution in Isopar H (B)	80	8.8	HDPE canisters	55/131	–	–	30/86									
<i>tert</i> -Butyl peroxy-3, 5, 5-trimethylhexanoate (CAS no. 13122-18-4)																		
TBPIN		liquid, technically pure	>99	6.9	HDPE canisters	60/140	–	–	25/77									
TBPIN-60-AL		60%, solution in isododecane	60	4.2	IBC	60/140	–	–	25/77									
TBPIN-30-AL		30%, solution in isododecane	30	2.1	IBC	60/140	–	–	25/77									
TBPIN-HA-M1		liquid mixture	90	6.2	HDPE canisters	60/140	–	–	30/86									

PRODUCT CODE	CHEMICAL STRUCTURE	SUPPLY FORM	PEROXIDE CONTENT	ACTIVE OXYGEN	STANDARD PACKAGING	SAFETY INFORMATION		min. Storage Temperature	max. Storage Temperature	APPLICATION									
Organic Peroxides			%	%		°C/°F	°C/°F		°C/°F										
<i>tert</i> -Butyl peroxy-2-ethylhexylcarbonate (CAS no. 34443-12-4)																			
TBPEHC		liquid, technically pure	>97	6.3	HDPE canisters	60/140	–	–	20/68		●		●	●	●				
CUROX®SOLAR FC1		liquid, technically pure	>98	>6.4	HDPE canisters	60/140	–	–	20/68			●							
<i>tert</i> -Butyl peroxyacetate (CAS no. 107-71-1)																			
TBPA-50-AL1 (US)		50%, solution in OMS	50	6.1	HDPE canisters	70/158	–	–	40/104		●			●	●				
																			
TBPA-40-AL1 (US)		40%, solution in OMS	40	4.8	IBC	70/158	–	–	40/104		●								
<i>tert</i> -Amyl peroxybenzoate (CAS no. 4511-39-1)																			
TAPB		liquid, technically pure	95	7.3	HDPE canisters	60/140	–	10/50	40/104		●				●				
<i>tert</i> -Butyl peroxybenzoate (CAS no. 614-45-9)																			
TBPB		liquid, technically pure	>99	8.2	HDPE canisters	60/140	–	10/50	30/86		●		●	●	●		●		
TBPB-HA-M3		liquid mixture	80	6.5	HDPE canisters	55/131	–	10/50	30/86				●						
2,2-Di(<i>tert</i> -butyl peroxy)butane (CAS no. 2167-23-9)																			
BU-50-AL		50%, solution in isododecane	50	6.8	HDPE canisters	70/158	–	–15/5	30/86		●				●		●		
																			
BU-50-WO		50%, solution in white oil	50	6.8	HDPE canisters	70/158	–	–15/5	30/86					●	●		●		
BU-35-AL		35%, solution in isododecane	35	4.8	IBC	70/158	–	–15/5	30/86		●				●				
Dicumylperoxide (CAS no. 80-43-3)																			
DCUP		powder, technically pure	>99	5.9	cartons	>70/158	–	–	30/86		●	●	●	●	●		●		
1,3-/1,4-Di(2- <i>tert</i> -butylperoxyisopropyl)benzene (CAS no. 25155-25-3)																			
DIPP		flakes, technically pure	97	9.2	cartons	90/194	–	–	30/86			●							

PRODUCT CODE	CHEMICAL STRUCTURE	SUPPLY FORM	PEROXIDE CONTENT	ACTIVE OXYGEN	STANDARD PACKAGING	SAFETY INFORMATION													
						SADT		Tc (Control Temperature)	min. Storage Temperature	max. Storage Temperature	APPLICATION								
						°C/°F	°C/°F		°C/°F										
Organic Peroxides				%	%														
2,5-Dimethyl-2,5-di(<i>tert</i> -butylperoxy)hexane (CAS no. 78-63-7)																			
DHBP		liquid, technically pure	95	10.4	HDPE canisters	90/194	–	10/50	40/104		●	●							
DHBP-7.5-IC5		7.5%, granules with PP	7,5	0.8	cartons	90/194	–	–	40/104		●								
DHBP-20-IC5		20%, granules with PP	20	2.2	cartons	90/194	–	–	40/104		●								
DHBP-45-IC2		45%, powder with chalk and silica	45	5.1	cartons	90/194	–	–	40/104			●							
DHBP-45-PSI1		45%, paste in silicone	45	5.0	HDPE drum	90/194	–	–	30/86			●							
CUROX®SOLAR SC		liquid, technically pure	95	10.4	HDPE canisters	90/194	–	10/50	40/104			●							
Di- <i>tert</i> -butyl peroxide (CAS no. 110-05-4)																			
DTBP		liquid, technically pure	>99	10.8	160 kg steel drum	>80/176	–	–	40/104		●	●			●		●		
DTBP S-500		liquid, technically pure, conductive	>99	10.8	160 kg steel drum	>80/176	–	–	40/104		●	●			●		●		
DTBP-75-AL		75%, solution in isododecane	75	8.2	IBC	>80/176	–	–	30/86		●				●				
DTBP-50-AL		50%, solution in isododecane	50	5.5	IBC	>80/176	–	–	30/86		●				●				
DTBP-50-AL4 (US)		solution in aliphatics	50	5.5	IBC	>80/176	–	–	30/86		●								
2,5-Dimethyl-2,5-di(<i>tert</i> -butylperoxy)hexyne-3 (CAS no. 1068-27-5)																			
DYBP (US)		liquid, technically pure	94	10.5	HDPE canisters	90/194	–	10/50	40/104			●							
DYBP-85-WO		82%, solution in white oil	82	9.2	HDPE canisters	90/194	–	10/50	40/104			●							
DYBP-45-IC2 (US)		45%, powder with chalk and silica	45	5.0	cartons	90/194	–	10/50	40/104			●							
<i>tert</i> -Butyl hydroperoxide (CAS no. 75-91-2)																			
TBHP-70-AQ		70%, aqueous solution	70	12.5	HDPE canisters 190 kg HDPE drum IBC	>80/176	–	2/35	35/95						●	●	●		
<i>tert</i> -Amyl hydroperoxide (CAS no. 3425-61-4)																			
TAHP-88		88%, aqueous solution	88	13.5	190 kg HDPE drum	>80/176	–	2/35	35/95						●	●	●		
Cumyl hydroperoxide (CAS no. 80-15-9)																			
CUROX®CUHP		80-85%, liquid mixture	80-85	8.5	HDPE canisters	60/140	–	–	30/86				●		●	●	●		

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Organic Peroxides			%	%		°C/°F	°C/°F		°C/°F									
2,3-Dimethyl-2,3-diphenylbutane (CAS no. 1889-67-4)																		
CUROX®CC-DC		flakes, technically pure	–	–	cartons, Big Bag / super sacks	–	–	–	–		●			●			●	
CUROX®CC-DCF		liquid, technically pure	–	–	IBC	–	–	–	–		●			●			●	
Poly-1,4-diisopropylbenzene (CAS no. 25822-43-9)																		
CUROX®CC-P3		flakes, technically pure	–	–	cartons	–	–	–	–		●			●			●	

Persulfates			%	%		°C/°F	°C/°F		°C/°F									
Ammonium peroxodisulfate (CAS no. 7727-54-0)																		
APS		powder, technically pure	>99	7.0	25 kg bags	>130/266	–	–	30/86	●				●	●	●	●	
APS-3		free flowing grade	>99	7.0	1.000 kg super sacks	>130/266	–	–	30/86					●	●	●	●	
Potassium peroxodisulfate (CAS no. 7727-21-1)																		
KPS/PPS		powder, technically pure	>99	5.9	25 kg bags	>170/338	–	–	30/86	●				●	●	●	●	
KPS-5		free flowing grade	>98,5	5.9	1.000 kg super sacks	>170/338	–	–	30/86					●	●	●	●	
Sodium peroxodisulfate (CAS no. 7775-27-1)																		
NPS/SPS		powder, technically pure	>99	6.7	25 kg bags	>170/338	–	–	30/8	●				●	●	●	●	
					1.000 kg super sacks	>170/338	–	–	30/86									

Safety Information

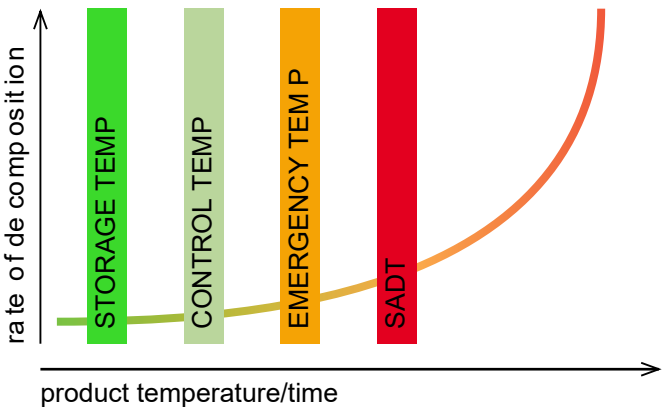
Half-life

Peroxide decomposition rates are commonly reported in terms of half-life time or when 50% of the peroxide has decomposed at a certain temperature. Recommended organic peroxide heat temperatures commonly reflect the half-life time at 10 hours, 1 hour and 1 minute. The higher the half-life temperature, the more stable the peroxide. Half-life temperatures can vary based on formulations and solvents.

Using the Arrhenius equation, acronyms related to half-life time include:

$$k_d = A \cdot e^{-EA/RT} \text{ and } t_{1/2} = \ln 2/k_d$$

k_d : Rate constant of the peroxide dissociation
A: Arrhenius frequency factor
 E_A : Activation energy for the dissociation
R: Ideal gas constant
T: Temperature
 $t_{1/2}$: Half-life time



Controlling the temperature is the most important constant. If the temperature is maintained well below its self-accelerating decomposition temperature (SADT), most hazards are avoided when shipping, handling or storing. For storage over a longer period of time, follow the manufacturer's temperature recommendations.

Self-Accelerating Decomposition Temperature (SADT)

The SADT is the lowest constant temperature for self-accelerating decomposition when transporting packaged peroxides. At the SADT, when elevated heat temperatures from decomposition exceed the heat loss, over time, the peroxide's temperature increases and it decomposes faster or self-accelerates. The final decomposition may be uncontrollable.

Minimum/Maximum Recommended Storage Temperature

The maximum recommended storage temperature is lower than the control temperature for quality assurance purposes not safety. Keep in mind, some liquid or paste organic peroxides must not be stored below a certain minimum temperature as turbidity, phase separation, crystal deposits or solidification can occur.

Control Temperature (T_c)

The T_c is the maximum transportation temperature recommended for the product's estimated time of arrival. T_c is not required if the SADT exceeds 50°C (122°F). Generally, the T_c mirrors SADT canister guidelines.

$$\begin{aligned} T_c &= \text{SADT minus } 20^\circ\text{C if SADT} < 20^\circ\text{C} \\ T_c &= \text{SADT minus } 15^\circ\text{C if SADT} < 35^\circ\text{C} \\ T_c &= \text{SADT minus } 10^\circ\text{C if SADT} < 50^\circ\text{C} \end{aligned}$$

SADT transportation temperatures are based on recommendations by the UN Committee of Experts on the Transportation of Dangerous Goods.

Emergency Temperature (T_e)

The control temperature T_c is supplemented by an emergency temperature, T_e, which is higher than the T_c but still well below the SADT. The T_c may be exceeded if maintenance is necessary or until alternative cooling such as dry or wet ice is available. However, if the T_e is reached, emergency procedures must be implemented immediately – for instance, cooling down the organic peroxides.

Product Code	Chemical Name	Storage Temperature	EA [kJ/mol]	Half Life [°C]		
				10 h	1 h	1 min
IBP	Diisobutyl peroxide	●	110	23	39	73
CUPND	Cumyl peroxyneodecanoate	●	115	38	55	90
TOPND	1,1,3,3-Tetramethylbutyl peroxyneodecanoate	●	117	40	57	92
TAPND	<i>tert</i> -Amyl peroxyneodecanoate	●	113	44	62	100
CEPC	Dicetyl peroxydicarbonate	●	124	41	57	90
MYPC	Dimyristyl peroxydicarbonate	●	124	41	57	90
SBPC	Di-sec-butyl peroxydicarbonate	●	120	41	57	90
EHPC	Di-2-ethylhexyl peroxydicarbonate	●	121	47	64	83
TBPND	<i>tert</i> -Butyl peroxyneodecanoate	●	121	47	64	100
BCHPC	Di-4- <i>tert</i> -butylcyclohexyl peroxydicarbonate	●	129	48	64	82
NBPC	Di- <i>n</i> -butyl peroxydicarbonate	●	130	49	65	99
TBPNH	<i>tert</i> -Butyl peroxyneohexanoate	●	116	51	69	107
TAPPI	<i>tert</i> -Amyl peroxyisobutyrate	●	121	53	71	110
DCLBP	Di-2,4-dichlorobenzoyl peroxide	●	121	54	72	110
TBPPI	<i>tert</i> -Butyl peroxyisobutyrate	●	121	56	74	110
INP	Di-3,5,5-trimethylhexanoyl peroxide	●	117	59	78	120
DP	Didecanoyl peroxide	●	126	62	80	120
LP	Dilauroyl peroxide	●	126	62	80	120
AIBN	2,2'-Azobis(isobutyronitrile)	●	130	62	80	120
DHPEH	2,5-Dimethyl-2,5-di(2-ethylhexanoylperoxy) hexane	●	137	67	84	125
PMBP	Di-4-methylbenzoyl peroxide	●	125	70	89	130
BP	Dibenzoyl peroxide	●	126	72	91	130
TAPEH	<i>tert</i> -Amyl peroxy-2-ethylhexanoate	●	126	72	91	130
TBPEH	<i>tert</i> -Butyl peroxy-2-ethylhexanoate	●	135	74	92	130
TBPIB	<i>tert</i> -Butyl peroxyisobutyrate	●	130	77	96	135
TBPM	<i>tert</i> -Butyl monoperoxymaleate	●	116	82	104	150
ACH	1,1-Di(<i>tert</i> -amylperoxy)cyclohexane	●	135	87	106	152
MIKP	Methyl isobutyl ketone peroxide	●	125	90	110	155
TAPEHC	<i>tert</i> -Amylperoxy-(2-ethylhexyl)carbonate	●	151	95	113	150
TMCH	1,1-Di(<i>tert</i> -butylperoxy)-3,5,5-trimethyl-cyclohexane	●	143	95	114	155
CH	1,1-Di(<i>tert</i> -butylperoxy)cyclohexane	●	138	97	117	160
TBPIC	<i>tert</i> -Butyl peroxyisopropyl carbonate	●	138	97	117	160
TBPIN	<i>tert</i> -Butyl peroxy-3,5,5-trimethylhexanoate	●	147	100	119	160
TBPEHC	<i>tert</i> -Butyl peroxy-2-ethylhexyl carbonate	●	128	100	122	175
TBPA	<i>tert</i> -Butyl peroxyacetate	●	149	102	121	160
TAPB	<i>tert</i> -Amyl peroxybenzoate	●	143	102	122	160
TBPB	<i>tert</i> -Butyl peroxybenzoate	●	143	104	124	165
BU	2,2-Di(<i>tert</i> -butylperoxy)butane	●	143	104	124	165
NBV	<i>n</i> -Butyl-4,4-di(<i>tert</i> -butylperoxy)valerate	●	141	110	131	175
EBU	Ethyl-3,3-di(<i>tert</i> -butylperoxy)butyrate	●	144	114	135	180
DCUP	Dicumyl peroxide	●	152	116	136	175
BCUP	<i>tert</i> -Butyl cumyl peroxide	●	154	118	138	180
DTAP	Di(<i>tert</i> -amyl) peroxide	●	129	118	142	190
DIPP	Di[2-(<i>tert</i> -butylperoxy)-isopropyl]benzene	●	142	120	142	190
DHBP	2,5-Dimethyl-2,5-di(<i>tert</i> -butylperoxy)hexane	●	142	120	142	190
DTBP	Di(<i>tert</i> -butyl) peroxide	●	152	125	146	190
DYBP	2,5-Dimethyl-2,5-di(<i>tert</i> -butylperoxy)hexyne-3	●	154	128	149	195
CUHP	Cumyl hydroperoxide	●	133	140	166	223
TBHP	<i>tert</i> -Butyl hydroperoxide	●	149	173	200	260
CUROX®CC-DC	2,3-Dimethyl-2,3-diphenylbutane	●	195	210	234	285



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