

		driving your success		
SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006				
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Commercial Product Name: CUROX M-102				
	DE / EN	Version: 1.5		
1. Identification of the substance/mix	xture and of the comp	any/undertaking		
1.1 Product identifier				
Product information				
Commercial Product Name : CUR	OX M-102			
1.2 Relevant identified uses of the substance	e or mixture and uses advi	sed against		
Use of the Substance/Mixture : Hard	dener			
1.3 Details of the supplier of the safety data s	sheet			
Company : United Initiators GmbH & Co. KG Dr. Gustav-Adolph-Str. 3 82049 Pullach Germany				
E-mail address : contact@united-in.com				
1.4 Emergency telephone number				
+49 / 89 / 74422 – 0				
In case of an emergency in the United Sta	tes, contact:			
For chemical Emergency ONLY call CH	EMTREC : 1-800-424-9	300		
For ALL other inquiries about this prod	uct call :			
United Initiators Inc.				
555 Garden Street, Elyria Ohio 44035 at	1 (440) 323-	3112		
2. Hazards identification				
2.1 Classification of the substance or mixtur	e			
Classification (REGULATION (EC) No 12	272/2008)			
Organic peroxides, Type D Acute toxicity, Category 4 Skin corrosion, Category 1B	H242: Heating may H302: Harmful if swa H314: Causes sever			
Classification (67/548/EEC, 1999/45/EC)				
Oxidising	R 7: May cause fire.			
Corrosive	R34: Causes burns.			
Harmful	R22: Harmful if swal	llowed.		
2.2 Label elements				
Labelling (REGULATION (EC) No 1272/2	2008)			



S		DATA SH egulation (EC) No. 1907/20	
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Commercial Product Name: CUF	OX M-102		
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Hazard pictograms			!
Signal word	: Danger		V
Hazard statements	: H242 H302 H314	Harmful if s	y cause a fire. wallowed. ⁄ere skin burns and eye damage.
Precautionary statements	: Preventior P220 P233 P235 P262 P280	Keep/Store bases, hea substances Keep conta Keep cool. Do not get i	away from clothing/ strong acids, vy metal salts and other reducing /combustible materials. iner tightly closed. n eyes, on skin, or on clothing. ctive gloves/ protective clothing/ eye
		61 + P353 IF ON SKIN ately all cor water/ shov 51 + P338 IF IN EYES several min	: Rinse cautiously with water for utes. Remove contact lenses, if pre-
	P315 Disposal: P501	Get immed	asy to do. Continue rinsing. ate medical advice/ attention. contents/ container to an approved osal plant.
Hazardous components which • 1338-23-4 me Labelling according to EC Dir Hazard symbols	ethylethylketonepe	roxide	
R-phrase(s)	Oxidising : R 7 R22	Corrosive Harr May cause Harmful if	
S-phrase(s)	R34 : S 3/7 S14 S26	Keep awa metal salts	Irns. ainer tightly closed in a cool place. y from strong acids, bases, heavy and other reducing substances. contact with eyes, rinse immediately



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	S36/3	7/39 Wear	suitable protective clothin	g, gloves and
	S45	In cas	eye/face protection. In case of accident or if you feel unwell, seel medical advice immediately (show the label where possible). Do not mix with activators and catalyst prom ers.	
	S50	Do no		
Hazardous components wh • 1338-23-4	hich must be listed methylethylketon			
3 Other hazards				
This mixture contains no s	ubstance conside	red to be persistent. b	ioaccumulating nor toxic ((PBT).
Composition/informat	ion on ingred	ients		
2 Mixtures				
Chemical nature	: Liquid	mixturo		
Chemical hature	. Liquiu	IIIXIUIE		
Hazardous components				
Chemical Name	CAS-No.	Classification	Classification	Concentration
Chemical Hame	EC-No.	(67/548/EEC)	(1272/2008/EC)	[%]
	Registration			
	Registration			
	number			
methylethylketoneperoxid	•	O; R 7	Org. Perox. D; H242	35 - <= 40
methylethylketoneperoxid e	number	Xn; R22	Acute Tox. 4; H302	35 - <= 40
	number 1338-23-4			35 - <= 40
	number 1338-23-4 215-661-2	Xn; R22	Acute Tox. 4; H302	35 - <= 40
e	number 1338-23-4 215-661-2 01- 2119514691- 43-0000	Xn; R22 C; R34	Acute Tox. 4; H302 Skin Corr. 1B; H314	35 - <= 40
e For the full text of the R-ph	number 1338-23-4 215-661-2 01- 2119514691- 43-0000 prases mentioned	Xn; R22 C; R34 in this Section, see Se	Acute Tox. 4; H302 Skin Corr. 1B; H314 ection 16.	35 - <= 40
e	number 1338-23-4 215-661-2 01- 2119514691- 43-0000 prases mentioned	Xn; R22 C; R34 in this Section, see Se	Acute Tox. 4; H302 Skin Corr. 1B; H314 ection 16.	35 - <= 40
e For the full text of the R-ph	number 1338-23-4 215-661-2 01- 2119514691- 43-0000 prases mentioned	Xn; R22 C; R34 in this Section, see Se	Acute Tox. 4; H302 Skin Corr. 1B; H314 ection 16.	35 - <= 40
e For the full text of the R-ph For the full text of the H-St	number 1338-23-4 215-661-2 01- 2119514691- 43-0000 prases mentioned	Xn; R22 C; R34 in this Section, see Se	Acute Tox. 4; H302 Skin Corr. 1B; H314 ection 16.	35 - <= 40
e For the full text of the R-ph For the full text of the H-St	number 1338-23-4 215-661-2 01- 2119514691- 43-0000 prases mentioned	Xn; R22 C; R34 in this Section, see Se	Acute Tox. 4; H302 Skin Corr. 1B; H314 ection 16.	35 - <= 40
e For the full text of the R-ph For the full text of the H-St First aid measures	number 1338-23-4 215-661-2 01- 2119514691- 43-0000 mases mentioned atements mention	Xn; R22 C; R34 in this Section, see Se	Acute Tox. 4; H302 Skin Corr. 1B; H314 ection 16.	35 - <= 40
e For the full text of the R-ph For the full text of the H-St First aid measures 1 Description of first aid me	number 1338-23-4 215-661-2 01- 2119514691- 43-0000 mases mentioned atements mention	Xn; R22 C; R34 in this Section, see Se ed in this Section, see	Acute Tox. 4; H302 Skin Corr. 1B; H314 ection 16. e Section 16.	
e For the full text of the R-ph For the full text of the H-St First aid measures	number 1338-23-4 215-661-2 01- 2119514691- 43-0000 mases mentioned tatements mention tatements mention tatements mention tatements mention	Xn; R22 C; R34 in this Section, see Se ed in this Section, see off all contaminated cl	Acute Tox. 4; H302 Skin Corr. 1B; H314 ection 16. e Section 16.	er give anything
e For the full text of the R-ph For the full text of the H-St First aid measures 1 Description of first aid measures	number 1338-23-4 215-661-2 01- 2119514691- 43-0000 mases mentioned tatements mention tatements mention tatements mention tatements mention tatements mention	Xn; R22 C; R34 in this Section, see Se ed in this Section, see off all contaminated cl outh to an unconscious	Acute Tox. 4; H302 Skin Corr. 1B; H314 ection 16. e Section 16.	er give anything xposure, lie
e For the full text of the R-ph For the full text of the H-St First aid measures	number 1338-23-4 215-661-2 01- 2119514691- 43-0000 mases mentioned tatements mentioned	Xn; R22 C; R34 in this Section, see Se ed in this Section, see off all contaminated cl outh to an unconscious In the case of accide	Acute Tox. 4; H302 Skin Corr. 1B; H314 ection 16. e Section 16.	er give anything xposure, lie
e For the full text of the R-ph For the full text of the H-St First aid measures 1 Description of first aid measures General advice	number 1338-23-4 215-661-2 01- 2119514691- 43-0000 mases mentioned iatements mention asures : Take of by mo down. advice	Xn; R22 C; R34 in this Section, see Se ed in this Section, see off all contaminated cl outh to an unconscious In the case of accide e immediately (show th	Acute Tox. 4; H302 Skin Corr. 1B; H314 ection 16. e Section 16. lothing immediately. Neve s person. Remove from ex nt or if you feel unwell, se he label where possible).	er give anything xposure, lie
e For the full text of the R-ph For the full text of the H-St First aid measures 1 Description of first aid mea General advice	number 1338-23-4 215-661-2 01- 2119514691- 43-0000 mases mentioned atements mentioned satements mentioned tatements mentioned	Xn; R22 C; R34 in this Section, see Se ed in this Section, see off all contaminated cl outh to an unconscious In the case of accide e immediately (show the ve to fresh air. Call a	Acute Tox. 4; H302 Skin Corr. 1B; H314 ection 16. e Section 16. lothing immediately. Neve s person. Remove from ex nt or if you feel unwell, se he label where possible). physician immediately.	er give anything xposure, lie
e For the full text of the R-ph For the full text of the H-St First aid measures 1 Description of first aid mea General advice If inhaled In case of skin contact	number 1338-23-4 215-661-2 01- 2119514691- 43-0000 mases mentioned iatements mention astements mention iatements mention iatements mention iatements mention istriction istri	Xn; R22 C; R34 in this Section, see Se ed in this Section, see off all contaminated cl outh to an unconscious In the case of accide immediately (show the ve to fresh air. Call a off immediately with s	Acute Tox. 4; H302 Skin Corr. 1B; H314 ection 16. e Section 16. lothing immediately. Neve s person. Remove from ex nt or if you feel unwell, se he label where possible). physician immediately. soap and plenty of water.	er give anything xposure, lie wek medical
e For the full text of the R-ph For the full text of the H-St First aid measures 1 Description of first aid mea General advice	number 1338-23-4 215-661-2 01- 2119514691- 43-0000 mases mentioned iatements mention asures : Take of by mo down. advice : Remo : Wash : In the	Xn; R22 C; R34 in this Section, see Se ed in this Section, see off all contaminated cl outh to an unconscious In the case of accide immediately (show the ve to fresh air. Call a off immediately with s	Acute Tox. 4; H302 Skin Corr. 1B; H314 ection 16. e Section 16. lothing immediately. Neve s person. Remove from exit nt or if you feel unwell, se he label where possible). physician immediately. soap and plenty of water. eyes, rinse immediately w	er give anything xposure, lie wek medical



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		back, place him in the recovery ng. If swallowed, seek medical advice ainer or label.			
4.2 Most important symptoms and e	ffects, both acute and delayed				
no data available					
4.3 Indication of any immediate med	ical attention and special treatmer	t needed			
no data available					
5. Firefighting measures					
5.1 Extinguishing media					
Suitable extinguishing media	: Use water spray, alcohol-resista dioxide.	int foam, dry chemical or carbon			
Unsuitable extinguishing media	: High volume water jet				
5.2 Special hazards arising from the	substance or mixture				
Specific hazards during fire- fighting	: Cool closed containers exposed run-off from fire fighting to enter	to fire with water spray. Do not allow drains or water courses.			
5.3 Advice for firefighters					
Special protective equipment for firefighters	: Use personal protective equipm	ent.			
Further information	: Fire residues and contaminated disposed of in accordance with				

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Wear personal protective equipment.

6.2 Environmental precautions

Avoid subsoil penetration. Do not allow material to contaminate ground water system. Do not contaminate water. If the product contaminates rivers and lakes or drains inform respective authorities. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Remove mechanically and with care (e.g. with clean polyethylene plastic shovel). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections



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see chapter: 7, 8, 11, 12 and 13				
5 Other information				
Never add other substances or w a licensed disposal company.	aste ma	aterial to product residue. Offer	r surplus and non-recyclable solutions t	
. Handling and storage				
1 Precautions for safe handling				
Advice on safe handling	: For personal protection see section 8.			
Dust explosion class	: no data available			
2 Conditions for safe storage, incl	-			
Requirements for storage areas and containers	no ca	: Electrical installations / working materials must comply with the tech- nological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep con- tainer tightly closed. No smoking.		
Further information on storage conditions	: Av	oid impurities (e.g. rust, dust,	ash), risk of decomposition.	
Advice on common storage	: Sto	ore apart from other dangerou	s and incompatible substances.	
Storage temperature	: <3	30 °C		
Other data	: Sto	oring temperature for reasons	of quality	
	liqu	uid up to -25 °C		
3 Specific end use(s)				

Other information on limit values: see chapter 16

8.2 Exposure controls

Engineering measures



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Provide adequate ventilation.			
Personal protective equipment			
	Short duration filter unit: Filter A		
Hand protection			
Material :	butyl-rubber		
Glove thickness : Breakthrough time: :	0,5 mm >= 8 h		
Remarks :	Skin should be washed after conta	act.	
Eye protection :	: Tightly fitting safety goggles Wear face protection.		
Skin and body protection :	Protective suit Remove and wash contaminated o	clothing before re-use.	
Hygiene measures :	 Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feedingstuffs. 		
Environmental exposure controls			
General advice :	Avoid subsoil penetration. Do not allow material to contamina Do not contaminate water. If the product contaminates rivers tive authorities. Do not let product enter drains.		
9. Physical and chemical proper	ties		
9.1 Information on basic physical and c	hemical properties		
Appearance :	liquid		
Colour : Odour :	colourless characteristic		
Odour Threshold :	Not relevant		
	not applicable < -25 °C		
Initial boiling point and boiling : range	not applicable, Decomposition		
Flash point :	not applicable		
Evaporation rate :	Not relevant		



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 Print Date: 06.03.2013 Page 7 of 12 Revision Date : 04.03.2013 Commercial Product Name: CUROX M-102 DE / EN Version: 1.5 Flammability (solid, gas) : not applicable Lower explosion limit : not applicable Lower explosion limit Upper explosion limit Vapour pressure : not applicable Vapour pressure : no data available Relative vapor density : no data available Density : 1,01 g/cm3 at 20 °C Water solubility : no data available Partition coefficient: n-: no data available octanol/water Solubility in other solvents : Mixable Medium: Phthalates Auto-ignition temperature : not applicable, Decomposes on heating. Decomposition temperature : ca. 60 °C, SADT (UN test H.4), SADT possible at temperatures above approximately 60 °C. Viscosity, dynamic : 13 mPa.s at 20 °C Viscosity, kinematic : no data available Explosive properties : no data available Oxidizing properties : Organic peroxide 9.2 Other information Ignition temperature : not applicable Refraction index 1,438 : at 20 °C Miscibility in water : immiscible

10. Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Contact with incompatible substances can cause disintegration at or below SADT.

10.3 Possibility of hazardous reactions

Vapours may form explosive mixture with air. Stability : Stable under recommended storage conditions.

10.4 Conditions to avoid

Keep away from heat and sources of ignition.

10.5 Incompatible materials



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Materials to avoid		bases, heavy metals and heavy metal purities (e.g. rust, dust, ash), risk of
10.6 Hazardous decomposition prod	lucts	
Hazardous decomposition prod- ucts	: Irritant, caustic, flammable, noxi develop in the case of fire and d	ous/toxic gases and vapours can lecomposition
11. Toxicological information		
11.1 Information on toxicological eff	ects	
Acute toxicity		
Acute oral toxicity	: LD50 rat: 1.017 mg/kg Test substance: methylethylketc dimethylphthalate)	oneperoxide (40% in
Acute inhalation toxicity	: LC50 rat: 17 mg/l Exposure time: 4 h Test substance: methylethylketc dimethylphthalate) Note: Aerosol Nominal concentration	oneperoxide (40% in
Acute dermal toxicity	: LD50 rat: 4.000 mg/kg Test substance: methylethylketc dimethylphthalate)	oneperoxide (40% in
Skin corrosion/irritation		
Skin irritation	: Causes burns.	
Serious eye damage/eye irritatio	n	
Eye irritation	: Causes burns.	
Respiratory or skin sensitization	1	
Sensitisation	: Result: Product is not sensitizing Method: Maximisation Test Test substance: methylethylketo dimethylphthalate/diacetone alco	neperoxide (60% in
Germ cell mutagenicity		
Genotoxicity in vitro	: Result: Not mutagenic in Ames	Test.
Carcinogenicity		
no data available		



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Reproductive toxicity no data available					
Teratogenicity no data available					
STOT - single exposure no data available					
STOT - repeated exposure no data available					
Aspiration hazard					
Aspiration toxicity					
no data available					
12. Ecological information					
Toxicity to fish	: LC50 (Poecilia reticulata (guppy) Exposure time: 96 h Test substance: methylethylketor dimethylphthalate)				
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia): 39 mg/l Exposure time: 48 h Test substance: methylethylketor dimethylphthalate)	neperoxide (40% in			
Toxicity to algae	: EC50 (Pseudokirchneriella subca Exposure time: 72 h Test substance: methylethylketor dimethylphthalate)				
Toxicity to bacteria	: EC50 (Bacteria): 48 mg/l Exposure time: 30 min Test substance: methylethylketor dimethylphthalate)	neperoxide (33% in			
12.2 Persistence and degradability					
<u>Biodegradability</u>	: Result: Readily biodegradable. Method: Closed Bottle Test Test substance: methylethylketor	neperoxide (MEKP)			



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12.3 Bioaccumulative potential				
no data available				
12.4 Mobility in soil				
no data available				
12.5 Results of PBT and vPvB asse	ssment			
This mixture contains no substar 12.6 Other adverse effects	nce considered to be persistent, bioaco	cumulating nor toxic (PBT).		
no data available				
13. Disposal considerations				
13.1 Waste treatment methods				
Advice on disposal and packag- ing	and in accordance with disposal	d by the user based on the applica-		
14. Transport information				
ADR				
UN number Description of the goods Class Packing group Classification Code Labels Limited quantity Tunnel restriction code Environmentally hazardous	 3105 ORGANIC PEROXIDE TYPE D, (methylethylketoneperoxide) 5.2 P1 5.2 LQ16 (D) no 	LIQUID		
RID UN number Description of the goods Class Packing group Classification Code Labels Limited quantity Environmentally hazardous	 3105 ORGANIC PEROXIDE TYPE D, (methylethylketoneperoxide) 5.2 P1 5.2 LQ16 no 	, LIQUID		



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ommercial Product Name: CURO	X M-102	
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ΙΑΤΑ		
UN number Description of the goods	 3105 Organic peroxide type D, lid (methylethylketoneperoxide) 	
Class	: 5.2	,
Packing group	:	
Labels Packing instruction (cargo air- craft)	: 5.2 (HEAT) : 570	
Environmentally hazardous Packing instruction (passenger aircraft)	: no : 570	
IMDG		
UN number Description of the goods	: 3105 : ORGANIC PEROXIDE TYP (methylethylketoneperoxide	
Class	: 5.2	-)
Packing group	:	
Labels	: 5.2	
EmSNumber 1	: F-J	
EmS Number 2 Marine Pollutant	: S-R : no	
Special precautions for user see chapter: 6, 7 and 8 Regulatory information		
Safety, health and environment National legislation	al regulations/legislation spec	ific for the substance or mixture
National legislation		
Water contaminating class (Germany)	: WGK 2 (water endangerin VwVwS (German water pol	g) lution authority), appendix 4
Other regulations	BG-Merkblatt M001 beacht Produkt unterliegt nicht der regulatory requirements) Ta and health at work of pregn	de. (German regulatory requirements) en (German regulatory requirements) n Sprengstoffgesetz (SprengG). (Germar ake note of Dir 92/85/EEC on the safety ant workers. Take note of Dir 94/33/EC people at work. Störfallverordnung yry requirements)
	Gefahrengruppe nach § 3 E ments) II (German regulato	3GV B4: (German regulatory require- ry requirements)
Chemical Safety Assessment		



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16. Other information					
Full text of R-phrases	referred to under sec	tions 2 and 3			
R 7 R22 R34	May cause fire. Harmful if swallowe Causes burns.	ed.			
Full text of H-Stateme	nts referred to under	sections 2 and 3.			
H242 H302 H314	Heating may cause Harmful if swallowe Causes severe skir		e.		
belief at the date of its p use, processing, storag quality specification. Th	publication. The informate, transportation, dispose information relates or	ition given is designed of sal and release and is r aly to the specific mater	est of our knowledge, information and only as a guidance for safe handling, not to be considered a warranty or ial designated and may not be valid for process, unless specified in the text.		