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SECTION 1. IDENTIFICATION

Trade name :		BENOX [®] L-40LV		
Other means of identification :		No data available		
Manufacturer or supplier's d	eta	ils		
Company name of supplier	:	United Initiators, Inc.		
Address	:	555 Garden Street Elyria OH 44035 USA		
		United Initiators Canada Ltd. 2147 PG Pulp Mill Road Prince George, BC-V2N 2S6 CANADA		
Telephone	:	+1-440-323-3112		
Telefax	:	+1-440-323-2659		
Emergency telephone	:	CHEMTREC US (24h): CHEMTREC WORLD (24h): CANUTEC (24h):	+1-800-424-9300 +1-703-527-3887 1-613-996-6666	
For Transportation Incidents :		TERRAPURE EMERGENCY RESPONSE SERVICES (24h): 1-800-567-7455		
E-mail address of person responsible for the SDS	:	cs-initiators.nafta@united-in.com		
Recommended use of the ch	en	nical and restrictions on use		
Recommended use	:	Curing chemical		

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Organic peroxides	:	Type E
Eye irritation	:	Category 2B
Skin sensitization	:	Category 1
Short-term (acute) aquatic hazard	:	Category 1





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	ong-term (chronic) aquatic azard	: Category 1	
-	GHS label elements Hazard pictograms		! ***
S	Signal Word	: Warning	• •
F	lazard Statements	H317 May c H320 Cause	g may cause a fire. ause an allergic skin reaction. is eye irritation. oxic to aquatic life with long lasting effects.
F	Precautionary Statements	Prevention	
		and other ig P234 Keep P240 Groun P261 Avoid P264 Wash P272 Contai the workplac P273 Avoid P280 Wear	away from heat, hot surfaces, sparks, open flames nition sources. No smoking. only in original packaging. d and bond container and receiving equipment. breathing mist or vapors. skin thoroughly after handling. minated work clothing should not be allowed out of e. release to the environment. protective gloves/ protective clothing/ eye protection/ on/ hearing protection.
		P305 + P35 for several r to do. Contir P333 + P313 attention. P337 + P313 tion. P362 + P364 reuse. P370 + P373	 B If skin irritation or rash occurs: Get medical advice/ B If eye irritation persists: Get medical advice/ atten- 4 Take off contaminated clothing and wash it before B In case of fire: Use water spray, alcohol-resistant emical or carbon dioxide to extinguish.
		Storage: P403 Stor P410 Prot	e in a well-ventilated place. ect from sunlight.
		P411 Stor	ect from sunlight. e at temperatures not exceeding 30 °C/ 86 °F. e separately.

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Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Chemical nature

: Organic Peroxide Liquid mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Dibenzoyl peroxide	Dibenzoyl pe- roxide	94-36-0	> 36 - < 42 *
Zinc stearate	Zinc stearate	557-05-1	>= 1 - < 5 *

Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	Take off contaminated clothing and shoes immediately. Call a physician immediately. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice. Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended.
lf inhaled	Administer oxygen if breathing is difficult or cyanosis is observed. If breathed in, move person into fresh air. If not breathing, give artificial respiration. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

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In ca	ase of skin contact	:		st, call a physician.
			for at least 15 min and shoes.	
In ca	ase of eye contact	:	of water and seek Remove contact I Protect unharmed Keep eye wide op	enses. eye.
lf sw	allowed	:	Call a physician ir Keep respiratory f If symptoms persi	
	t important symptoms effects, both acute and yed	:	May cause an alle Causes eye irritat sensitizing effects	
Prote	ection of first-aiders	:		ers should pay attention to self-protection nmended protective clothing
Note	es to physician	:	Treat symptomati	cally and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray jet Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Risk of explosion if heated under confinement. Possible emission of gaseous decomposition products may lead to a dangerous pressure build-up. Avoid confinement. Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self- accelerating decomposition reaction with release of flammable vapors which may auto-ignite. The product burns violently. Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or water

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			The product will fle water.	explosive mixtures with air. bat on water and can be reignited on surface iners exposed to fire with water spray.
Spo ods	ecific extinguishing meth-	:	fire. Remove undamag so.	water stream as it may scatter and spread ed containers from fire area if it is safe to do o cool unopened containers.
Fur	ther information	:	circumstances and Use a water spray Collect contamina must not be disch Fire residues and	measures that are appropriate to local d the surrounding environment. to cool fully closed containers. ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.
	ecial protective equipment fire-fighters	:	Wear self-containe necessary. Use personal prot	ed breathing apparatus for firefighting if ective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Follow safe handling advice and personal protective equipment recommendations. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Use personal protective equipment. Remove all sources of ignition. Never return spills in original containers for re-use. Treat recovered material as described in the section "Disposal considerations".
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Contact with incompatible substances can cause decomposition at or below SADT. Clear spills immediately. Suppress (knock down) gases/vapors/mists with a water spray jet. To clean the floor and all objects contaminated by this material, use plenty of water. Soak up with inert absorbent material. Isolate waste and do not reuse. Non-sparking tools should be used.





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			disposal of this employed in the	al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to h regulations are applicable.
SECTION	7. HANDLING AND ST	OR	AGE	
Techr	nical measures	:		g measures under EXPOSURE RSONAL PROTECTION section.
	e on protection against nd explosion	:	(which might ca Keep away from Use only explose Keep away from ignition.	v action to avoid static electricity discharge ause ignition of organic vapors). In heat and sources of ignition. sion-proof equipment. In open flames, hot surfaces and sources of In combustible material.
Advic	e on safe handling	:	Protect from co Do not breathe Avoid exposure Avoid contact w Avoid formation Take precaution Never return ar originally remov Provide sufficie Avoid confinem Keep away from other ignition so Smoking, eating application area Wash thoroughl For personal pr Persons suscep allergies, chron	vapors/dust. - obtain special instructions before use. vith skin and eyes. of aerosol. hary measures against static discharges. hy product to the container from which it was red. Int air exchange and/or exhaust in work rooms. ent. In heat, hot surfaces, sparks, open flames and burces. No smoking. g and drinking should be prohibited in the
Cond	itions for safe storage	:	Store in cool pla Keep in a well-v Contamination closed containe Observe label p Store in accord Avoid impurities	s tightly closed in a cool, well-ventilated place. ace. ventilated place. may result in dangerous pressure increases - rs may rupture.

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	Materia	lls to avoid	:	kept upright to pre	are opened must be carefully resealed and event leakage. combustible materials. strong acids, bases, heavy metal salts and
	Recom peratur	mended storage tem- e	:	0 - 30 °C	
	Further age sta	information on stor- ability	:	Stable under reco	mmended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

A				
Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Dibenzoyl peroxide	94-36-0	TWA	5 mg/m3	CA AB OEL
		TWA	5 mg/m3	CA BC OEL
		TWAEV	5 mg/m3	CA QC OEL
		TWA	5 mg/m3	ACGIH
Zinc stearate	557-05-1	TWA	10 mg/m3	CA AB OEL
		TWAEV	10 mg/m3	CA QC OEL
		TWA (Inhal-	10 mg/m3	CA BC OEL
		able)		
		TWA (Res-	3 mg/m3	CA BC OEL
		pirable)		
		TWA	10 mg/m3	ACGIH
		(Inhalable		
		particulate		
		matter)		
		TWA	3 mg/m3	ACGIH
		(Respirable		
		particulate		
		matter)		

Engineering measures

: Minimize workplace exposure concentrations.

Personal protective equipment

:

Respiratory protection

In the case of dust or aerosol formation use respirator with an approved filter.





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F	ilter type	: A	BEK-filter	
		U	se NIOSH approv	ed respiratory protection.
M B G M B	d protection laterial reak through time slove thickness laterial reak through time slove thickness	: 44 : 0. : N : 44	utyl-rubber 30 min 47 mm itrile rubber 30 min 5 mm	
R	emarks	st m pi cl ha F re gl	andard values! T aterial has to be rotective glove. C nemicals dependi azardous substar for special applica esistance to chem	eak through time/strength of material are he exact break through time/strength of obtained from the producer of the choose gloves to protect hands against ng on the concentration and quantity of the nce and specific to place of work. ations, we recommend clarifying the nicals of the aforementioned protective we manufacturer. Wash hands before end of workday.
Eye	protection	tc P A e <u>y</u> Ti P	the workstation lease follow all ap electing protective lways wear eye p ye contact with th ghtly fitting safet lease wear suitab	pplicable local/national requirements when e measures for a specific workplace. protection when the potential for inadvertent e product cannot be excluded.
Skin	and body protection	re		protective clothing based on chemical d an assessment of the local exposure
		ta di W	sk being perform sposable suits) ti /ear as appropriat	rments should be used based upon the ed (e.g., sleevelets, apron, gauntlets, o avoid exposed skin surfaces. e: ntistatic protective clothing.
Prote	ective measures	to		ive equipment must be selected according n and amount of the dangerous substance place.
Hygi	ene measures	K	void contact with eep away from fo /hen using do not	

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When using do not smoke. Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Emulsion
Color	:	white
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	not determined substance/mixture is non-soluble (in water)
Melting point/range	:	No data available
Boiling point/boiling range	:	Decomposition: Decomposes below the boiling point.
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Organic peroxide
Flammability (liquids)	:	Organic peroxide
Self-ignition	:	The substance or mixture is not classified as pyrophoric.
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapor pressure	:	not determined
Relative density	:	not determined
Density	:	1.2 g/cm3 (25 °C)

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	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Autoign	ition temperature	:	not determined	
		celerating decomposi- nperature (SADT)	:	temperature at w	H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
	Viscosi Visc	ty cosity, dynamic	:	not determined	
	Visc	cosity, kinematic	:	not determined	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o Organic peroxide	r mixture is not classified as oxidizing.
	Self-hea	ating substances	:	The substance o	r mixture is not classified as self heating.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions. Heating may cause a fire or explosion.
Chemical stability	:	Stable under recommended storage conditions. No decomposition if stored normally.
Possibility of hazardous reac- tions	:	Vapors may form explosive mixture with air.
Conditions to avoid	:	Protect from contamination. Contact with incompatible substances can cause decomposition at or below SADT. Heat, flames and sparks. Avoid confinement.
Incompatible materials	:	Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents





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Hazar produc	dous decomposition cts	:		c, flammable, noxious/toxic gases and vapours in the case of fire and decomposition
CTION	11. TOXICOLOGICAL	INFO	ORMATION	
	e toxicity assified due to lack of d	lata.		
<u>Comp</u>	oonents:			
	nzoyl peroxide: oral toxicity	:		5,000 mg/kg Test Guideline 401 he substance or mixture has no acute oral tox
Acute	inhalation toxicity	:		4 h
Acute	dermal toxicity	:	Remarks: No d	ata available
Zinc s	stearate:			
Acute	oral toxicity	:		5,000 mg/kg Test Guideline 401 he substance or mixture has no acute oral tox
Acute	inhalation toxicity	:	LC50 (Rat): >2 Exposure time: Test atmosphe	1 h
Acute	dermal toxicity	:	LD50 (Rabbit): Assessment: T toxicity	> 2,000 mg/kg he substance or mixture has no acute dermal
Skin o	corrosion/irritation			
Not cl	assified due to lack of d	lata.		
<u>Produ</u>				
Rema	rks	:	May cause skir	n irritation in susceptible persons.
Comp	oonents:			
-	nzoyl peroxide:			





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	Specie: Result	S	:	Rabbit No skin irritation	
	Zinc st	earate:			
	Species Method Result		:	Rabbit Draize Test No skin irritation	
		s eye damage/eye s eye irritation.	irritat	ion	
	Produc	<u>ct:</u>			
	Remark	<s< td=""><td>:</td><td>Vapors may caus and the skin.</td><td>e irritation to the eyes, respiratory system</td></s<>	:	Vapors may caus and the skin.	e irritation to the eyes, respiratory system
	Remark	<s< td=""><td>:</td><td>Vapors may caus and the skin.</td><td>e irritation to the eyes, respiratory system</td></s<>	:	Vapors may caus and the skin.	e irritation to the eyes, respiratory system
	<u>Components:</u>				
	Dibenz	oyl peroxide:			
	Species Result		:	Rabbit Irritation to eyes,	reversing within 7 days
	Zinc st	earate:			
	Specie	s	:	Rabbit	
	Result Methoo	1	:	No eye irritation Draize Test	
	wethod	1		Diaize lest	
	Respir	atory or skin sensit	tizatio	n	
	Skin se	ensitization			
	May ca	ause an allergic skin	reactio	on.	
	-	atory sensitization ssified due to lack o	f data.		
	Product:				
	Remark		:	Causes sensitiza	tion.
	<u>Compo</u>	onents:			
	Dibenz	oyl peroxide:			
		of exposure	:	Skin contact	
	Specie: Method		:	Mouse Local lymph node	
	Result	4	:		ization by skin contact.

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	Method : Result :		Skin contact Guinea pig OECD Test Guidel Does not cause sk Information given i stances.		
		cell mutagenicity ssified due to lack of da	ata.		
	<u>Compo</u>	nents:			
	Dibenz	oyl peroxide:			
	Genoto	xicity in vitro	:	Method: OECD Te Result: negative	st Guideline 471
				Method: OECD Te Result: negative	st Guideline 476
	Genoto	xicity in vivo	:	Test Type: domina Species: Mouse Result: negative	nt lethal test
	Zinc ste	earate:			
	Genoto	xicity in vitro	:	Method: OECD Te Result: negative Remarks: Informat similar substances	ion given is based on data obtained from
	Genoto	xicity in vivo	:	Test Type: Chromo Species: Rat Result: Equivocal	osomal aberration
		ogenicity ssified due to lack of da	ata.		
	<u>Compo</u>	nents:			
	Dibenz Remark	oyl peroxide: S	:	This information is	not available.
	-	luctive toxicity ssified due to lack of da	ata.		
	<u>Compo</u>	nents:			
		oyl peroxide: on fertility	:	Species: Rat, male Application Route:	





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			General Toxicity F Method: OECD Te	Parent: NOAEL: 1,000 mg/kg body weight est Guideline 422
			Species: Rat, fem Application Route General Toxicity F Method: OECD Te	: Oral Parent: NOAEL: 500 mg/kg body weight
	Reproductive toxicity - As- sessment	:		dverse effects on sexual function and fertility, t, based on animal experiments.
	Zinc stearate:			
	Effects on fertility	:	Method: OECD Te	F1: NOAEL: 7.5 mg/kg body weight
	Effects on fetal development	:	Teratogenicity: NO	: oral (gavage) Maternal: NOAEL: 30 mg/kg body weight DAEL: 30 mg/kg body weight on data from similar materials
	STOT-single exposure Not classified due to lack of da	at a		
	Components:			
	Dibenzoyl peroxide:			
	Routes of exposure Assessment	:	Ingestion The substance or organ toxicant, sin	mixture is not classified as specific target ngle exposure.
	STOT-repeated exposure Not classified due to lack of da	ata.		
	Components:			
	Dibenzoyl peroxide: Routes of exposure Assessment	:	Ingestion The substance or organ toxicant, re	mixture is not classified as specific target peated exposure.
	Papagtad dasa taxisity			
	Repeated dose toxicity			
	<u>Components:</u>			
	Dibenzoyl peroxide: Species	:	Rat	

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	cation Route sure time	: 1,000 mg/kg : Oral : 28 d : OECD Test G	uideline 422
Spec NOAI	EL cation Route	: Mouse : 458 mg/kg : Oral : OECD Test G	uideline 408
-	ration toxicity lassified due to lack of	f data.	
Com	ponents:		
	nzoyl peroxide: spiration toxicity classi	ification	
Furth	er information		
<u>Prod</u> Rema		: No data availa	ble
<u>Com</u>	ponents:		
Zinc Rema	stearate: arks	: No data availa	ble

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Product:		
Ecotoxicology Assessment Acute aquatic toxicity Chronic aquatic toxicity		Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
<u>Components:</u>	•	
Dibenzoyl peroxide: Toxicity to fish	:	EC50 (Oncorhynchus mykiss (rainbow trout)): 0.06 mg/l Exposure time: 96 h Method: OECD Test Guideline 203





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		to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.11 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 0.071 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
				NOEC (Pseudokirchneriella subcapitata (green algae)): 0.02 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	M-Facto city)	or (Acute aquatic tox-	:	10
a		to daphnia and other invertebrates (Chron- ty)	:	EC10 (Daphnia magna (Water flea)): 0.001 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211
	M-Facto oxicity)	or (Chronic aquatic	:	10
Т	Foxicity	to microorganisms	:	EC50 (Bacteria): 35 mg/l Exposure time: 30 min Method: OECD Test Guideline 209
E	Ecotoxi	icology Assessment		
		quatic toxicity	:	Very toxic to aquatic life.
C	Chronic	aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.
	Zinc ste Toxicity	earate: to fish	:	LC50 (Danio rerio (zebra fish)): > 10,000 mg/l
				Exposure time: 96 h Method: Directive 67/548/EEC, Annex V, C.1.
		to daphnia and other invertebrates	:	LC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
	Toxicity plants	to algae/aquatic	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
T	Foxicity	to microorganisms	:	NOEC (Pseudomonas putida): 1,000 mg/l

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			Exposure time: 0 Method: DIN 38 4	
Persi	stence and degradab	ility		
<u>Comp</u>	oonents:			
	n zoyl peroxide: gradability	:		lable est Guideline 301D
Zinc	stearate:			
Biode	gradability	:		iodegradable. est Guideline 301D
Bioad	cumulative potential			
<u>Comp</u>	oonents:			
Diber	nzoyl peroxide:			
	ion coefficient: n- ol/water	:	log Pow: 3.2 (20	°C)
Zinc	stearate:			
	ion coefficient: n- ol/water	:	Remarks: No dat	a available
	l ity in soil ata available			
Other	adverse effects			
<u>Produ</u> Additi matio	onal ecological infor-	:	unprofessional ha	hazard cannot be excluded in the event of andling or disposal. atic life with long lasting effects.
<u>Comp</u>	oonents:			
-	stearate: onal ecological infor- n	:	No data available	

SECTION 13. DISPOSAL CONSIDERATIONS

- Disposal methods
- Waste from residues
- : Dispose of wastes in an approved waste disposal facility.

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Conta	minated packaging	 courses or the Do not contam chemical or us Dispose of in a Clean containe Dispose of con plant. Empty remainin Dispose of as Do not re-use 	inate ponds, waterways or ditches with ed container. accordance with local regulations. er with water. atents/ container to an approved waste disposal

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class	::	ORGANIC PEROXIDE TYPE E, LIQUID (DIBENZOYL PEROXIDE) 5.2
Packing group Labels Environmentally hazardous	:	Not assigned by regulation 5.2 yes
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		UN 3107 Organic peroxide type E, liquid (Dibenzoyl peroxide) 5.2 Not assigned by regulation Organic Peroxides, Keep Away From Heat 570
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant	: : : : : : : : : : : : : : : : : : : :	UN 3107 ORGANIC PEROXIDE TYPE E, LIQUID (DIBENZOYL PEROXIDE) 5.2 Not assigned by regulation 5.2 F-J, S-R yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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Domestic regulation

TDG		
UN number	:	UN 3107
Proper shipping name	:	ORGANIC PEROXIDE TYPE E, LIQUID
		(DIBENZOYL PEROXIDE)
Class	:	5.2
Packing group	:	II
Labels	:	5.2
ERG Code	:	145
Marine pollutant	:	yes
		-

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

NPRI Components	:	Dibenzoyl peroxide Zinc stearate poly(oxyethylene) octylphenyl ether
International Regulations		
Gefahrgruppe nach TRGS 741	1: II	(German regulatory requirements)
The ingredients of this prod TCSI (TW)	uct :	are reported in the following inventories: On the inventory, or in compliance with the inventory
TSCA (US)	:	All substances listed as active on the TSCA inventory
AIIC (AU)	:	On the inventory, or in compliance with the inventory
DSL (CA)	:	All components of this product are on the Canadian DSL
IECSC (CN)	:	On the inventory, or in compliance with the inventory

Canadian lists

No substances are subject to a Significant New Activity Notification.

according to the Hazardous Products Regulations





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SECTION 16. OTHER INFORMATION

Further information

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

These safety instructions also apply to empty packaging which may still contain product residues. The hazards on the label also apply to residues in the container.

Sources of key data used to compile the Material Safety	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

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ACGIH		USA. ACGIH Threshold Limit Values (TLV)	
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)	
CA BC OEL	:	Canada. British Columbia OEL	
CA QC OEL	:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants	
ACGIH / TWA	:	8-hour, time-weighted average	
CA AB OEL / TWA	:	8-hour Occupational exposure limit	
CA BC OEL / TWA		8-hour time weighted average	
CA QC OEL / TWAEV	:	Time-weighted average exposure value	

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan): ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New

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Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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