according to the OSHA Hazard Communication Standard



## **BENOX<sup>®</sup>L-40LV-EU**

Version	Revision Date:	SDS Number:	Date of last issue: 10/18/2022
1.2	10/28/2024	60000000797	Date of first issue: 09/05/2019

#### **SECTION 1. IDENTIFICATION**

Trade name	:	BENOX <sup>®</sup> L-40LV-EU					
Manufacturer or supplier's c	Manufacturer or supplier's details						
Company name of supplier	:	United Initiators, Inc.					
Address	:	555 Garden Street Elyria OH 44035 USA					
Telephone	:	+1-440-323-3112					
Telefax	:	+1-440-323-2659					
Emergency telephone	:	CHEMTREC US (24h): CHEMTREC WORLD (24h):	+1-800-424-9300 +1-703-527-3887				
E-mail address of person responsible for the SDS	:	cs-initiators.nafta@united-in.com					
Recommended use of the chemical and restrictions on use							

Recommended use : Curing chemical

#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS label elements Hazard pictograms	:	
CHC label elemente		
Long-term (chronic) aquatic hazard	:	Category 1
Short-term (acute) aquatic hazard	:	Category 1
Skin sensitization	:	Category 1
Eye irritation	:	Category 2B
Organic peroxides	:	Туре Е

according to the OSHA Hazard Communication Standard



## **BENOX<sup>®</sup>L-40LV-EU**

2	Revision Date: 10/28/2024	SDS Number: 60000000797	Date of last issue: 10/18/2022 Date of first issue: 09/05/2019
Signa	l Word	: Warning	
Hazaı	rd Statements	: H242 Heating r H317 May cause H320 Causes e H410 Very toxi	may cause a fire. se an allergic skin reaction. eye irritation. c to aquatic life with long lasting effects.
Preca	utionary Statements	Prevention:	
		P210 Keep awa No smoking. P220 Keep/Sto P234 Keep onl P261 Avoid bre P264 Wash ski P272 Contamir the workplace. P273 Avoid rel P280 Wear pro	ay from heat/ sparks/ open flames/ hot surfaces. re away from clothing/ combustible materials. y in original container. eathing mist or vapors. n thoroughly after handling. hated work clothing must not be allowed out of ease to the environment. tective gloves/ eye protection/ face protection.
		Response:	
		P302 + P352 IF P305 + P351 + for several min to do. Continue P333 + P313 If attention. P337 + P313 If tion. P363 Wash co P391 Collect sp	F ON SKIN: Wash with plenty of soap and water P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and eas rinsing. skin irritation or rash occurs: Get medical advice eye irritation persists: Get medical advice/ atter ntaminated clothing before reuse. pillage.
		Storage:	
		P410 Protect P411 + P235 86 °F. Keep co P420 Store a	from sunlight. Store at temperatures not exceeding 30 °C/ ol. way from other materials.
		Disposal:	

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Chemical nature

according to the OSHA Hazard Communication Standard



## **BENOX<sup>®</sup>L-40LV-EU**

Version	Revision Date:	SDS Number:	Date of last issue: 10/18/2022
1.2	10/28/2024	60000000797	Date of first issue: 09/05/2019

Liquid mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Dibenzoyl peroxide	94-36-0	>= 35 - < 40
Zinc stearate	557-05-1	>= 1 - < 5

Actual concentration 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.
If 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.
In case of skin contact	:	If symptoms persist, call a physician. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Call a physician immediately. Keep respiratory tract clear. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and	:	May cause an allergic skin reaction. Causes eye irritation.

according to the OSHA Hazard Communication Standard



Vers 1.2	sion	Revision Date: 10/28/2024	SD 60	S Number: 0000000797	Date of last issue: 10/18/2022 Date of first issue: 09/05/2019
	delayec	I		May cause an alle Causes eye irritati sensitizing effects	rgic skin reaction. on.
	Protecti	on of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing	
	Notes to	o physician	:	Treat symptomatic	cally and supportively.
SEC	TION 5.	FIRE-FIGHTING ME	ASU	RES	
	Suitable	e extinguishing media	:	Water spray jet Alcohol-resistant f Carbon dioxide (C Dry chemical	oam O2)
	Unsuita media	ble extinguishing	:	High volume wate	r jet
	Specific fighting	hazards during fire	:	Risk of explosion i Possible emission lead to a dangerou Avoid confinemen Contact with incon temperatures exce accelerating decon vapors which may	f heated under confinement. of gaseous decomposition products may us pressure build-up. t. npatible materials or exposure to beding SADT may result in a self- mposition reaction with release of flammable auto-ignite.
				The product burns Flash back possib Do not allow run-o courses. Vapors may form The product will flo water. Cool closed conta	violently. le over considerable distance. ff from fire fighting to enter drains or water explosive mixtures with air. pat on water and can be reignited on surface iners exposed to fire with water spray.
	Specific ods	extinguishing meth-	:	Do not use a solid fire. Remove undamag so. Use water spray to	water stream as it may scatter and spread ged containers from fire area if it is safe to do o cool unopened containers.
	Further	information	:	Use extinguishing circumstances and Use a water spray Collect contamina must not be discha	measures that are appropriate to local d the surrounding environment. to cool fully closed containers. ted fire extinguishing water separately. This arged into drains.

according to the OSHA Hazard Communication Standard



## **BENOX<sup>®</sup>L-40LV-EU**

Version 1.2	Revision Date: 10/28/2024	SDS Number: 600000000797	Date of last issue: 10/18/2022 Date of first issue: 09/05/2019		
		Fire residues be disposed	and contaminated fire extinguishing water must of in accordance with local regulations.		
Special protective equipment for fire-fighters		: Wear self-col necessary. Use persona	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.		
SECTIO	ON 6. ACCIDENTAL RELE	ASE MEASURES			
Pe tive gei	rsonal precautions, protec- e equipment and emer- ncy procedures	: Follow safe h equipment re Beware of va concentratior Use persona Remove all s Never return	andling advice and personal protective commendations. pors accumulating to form explosive is. Vapors can accumulate in low areas. I protective equipment. ources of ignition. spills in original containers for re-use.		

## 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.

Treat recovered material as described in the section "Disposal

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. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to
		determine which regulations are applicable.

#### SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Advice on protection against fire and explosion	:	Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

according to the OSHA Hazard Communication Standard



Version 1.2	Revision Date: 10/28/2024	SE 60	DS Number: 0000000797	Date of last issue: 10/18/2022 Date of first issue: 09/05/2019
			Keep away from I Use only explosio Keep away from o ignition. Keep away from o	neat and sources of ignition. In-proof equipment. Open flames, hot surfaces and sources of combustible material.
Ad	vice on safe handling	:	<ul> <li>Open drum carefully as content may be under pressure. Protect from contamination. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid formation of aerosol. Take precautionary measures against static discharges. Never return any product to the container from which it wa originally removed. Provide sufficient air exchange and/or exhaust in work roo Avoid confinement. Keep away from heat, hot surfaces, sparks, open flames a other ignition sources. No smoking. Smoking, eating and drinking should be prohibited in the application area. Wash thoroughly after handling. For personal protection see section 8. Persons susceptible to skin sensitization problems or asth allergies, chronic or recurrent respiratory disease should r be employed in any process in which this mixture is being used.</li> </ul>	
Cc	onditions for safe storage	:	Store in original c Keep containers t Store in cool plac Keep in a well-vel Contamination ma closed containers Observe label pre Store in accordan Avoid impurities ( Electrical installat the technological Containers which kept upright to pre	ontainer. ightly closed in a cool, well-ventilated place. e. ntilated place. ay result in dangerous pressure increases - may rupture. ecautions. ice with the particular national regulations. e.g. rust, dust, ash), risk of decomposition. ions / working materials must comply with safety standards. are opened must be carefully resealed and event leakage.
Ma	aterials to avoid	:	Keep away from o Keep away from s other reducing su	combustible materials. strong acids, bases, heavy metal salts and bstances.
Re pe	commended storage tem- rature	:	0 - 30 °C	
			32 - 86 °F	
Fu	rther information on stor-	:	Stable under reco	mmended storage conditions.

according to the OSHA Hazard Communication Standard



## **BENOX<sup>®</sup>L-40LV-EU**

Version	Revision Date:	SDS Number:	Date of last issue: 10/18/2022
1.2	10/28/2024	60000000797	Date of first issue: 09/05/2019

age stability

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Dibenzoyl peroxide	94-36-0	TWA	5 mg/m3	ACGIH
		TWA	5 mg/m3	NIOSH REL
		TWA	5 mg/m3	OSHA Z-1
		TWA	5 mg/m3	OSHA P0
Zinc stearate	557-05-1	TWA (Res-	5 mg/m3	NIOSH REL
		pirable)	-	
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total	15 mg/m3	OSHA Z-1
		dust)	-	
		TWA (respir-	5 mg/m3	OSHA Z-1
		able fraction)	-	
		TWA (Total	10 mg/m3	OSHA P0
		dust)		
		TWA (respir-	5 mg/m3	OSHA P0
		able dust	-	
		fraction)		
		TWA (Inhal-	10 mg/m3	ACGIH
		able particu-		
		late matter)		
		TWA (Res-	3 mg/m3	ACGIH
		pirable par-		
		ticulate mat-		
		ter)		

**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.
		Use NIOSH approved respiratory protection.
Filter type	:	ABEK-filter
Hand protection Material Break through time Glove thickness	:	Nitrile rubber 480 min 0.40 mm
Material Break through time	:	butyl-rubber 480 min

according to the OSHA Hazard Communication Standard





Versio 1.2	n Revision Date: 10/28/2024	SI 60	DS Number: 0000000797	Date of last issue: 10/18/2022 Date of first issue: 09/05/2019
	Glove thickness	:	0.47 mm	
	Remarks	:	The data about by standard values! material has to be protective glove. ( chemicals depend hazardous substa For special applic resistance to cher gloves with the glu breaks and at the	reak through time/strength of material are The exact break through time/strength of e obtained from the producer of the Choose gloves to protect hands against ding on the concentration and quantity of the unce and specific to place of work. cations, we recommend clarifying the micals of the aforementioned protective ove manufacturer. Wash hands before end of workday.
E	ye protection	:	Ensure that eyew to the workstation Please follow all a selecting protectiv Always wear eye eye contact with t Tightly fitting safe Please wear suita protection if there	ash stations and safety showers are close location. applicable local/national requirements when /e measures for a specific workplace. protection when the potential for inadvertent he product cannot be excluded. ty goggles ble protective goggles. Also wear face is a splash hazard.
S	kin and body protection	:	Select appropriate resistance data an potential.	e protective clothing based on chemical nd an assessment of the local exposure
			Additional body ga task being perforr disposable suits) Wear as appropria Flame retardant a	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, to avoid exposed skin surfaces. ate: intistatic protective clothing.
P	rotective measures	:	The type of protect to the concentration at the specific work of the spe	ctive equipment must be selected according on and amount of the dangerous substance rkplace.
н	ygiene measures	:	Avoid contact with Keep away from f When using do no When using do no Wash hands befo the product.	n skin, eyes and clothing. ood and drink. ot eat or drink. ot smoke. re breaks and immediately after handling

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Emulsion
Color	:	white

according to the OSHA Hazard Communication Standard



Ver 1.2	sion	Revision Date: 10/28/2024	SD 600	S Number: 0000000797	Date of last issue: 10/18/2022 Date of first issue: 09/05/2019
	Odor		:	characteristic	
	Odor T	hreshold	:	not determined	
	рН		:	Not applicable su	ubstance/mixture is non-soluble (in water)
	Melting	point/ range	:	not determined	
	Boiling	point/boiling range	:	Decomposition: I	Decomposes below the boiling point.
	Flash p	point	:	Not applicable	
	Evapor	ation rate	:	No data available	9
	Flamm	ability (solid, gas)	:	does not ignite	
	Flamm	ability (liquids)	:	Organic peroxide	
	Self-igr	nition	:	The substance o	r mixture is not classified as pyrophoric.
	Upper of flamma	explosion limit / Upper ability limit	:	Upper explosion not determined	limit
	Lower of flamma	explosion limit / Lower ability limit	:	Lower explosion not determined	limit
	Vapor p	oressure	:	not determined	
	Relativ	e vapor density	:	not determined	
	Relativ	e density	:	not determined	
	Density	/	:	1.150 g/cm3 (25	°C)
	Bulk de	ensity	:	Not applicable	
	Solubili Wat	ity(ies) ter solubility	:	insoluble	
	Solu	ubility in other solvents	:	soluble Solvent: organic	solvents
	Partitio octanol	n coefficient: n- I/water	:	Not applicable	
	Autoigr	nition temperature	:	not determined	
	Self-Ac	celerating decomposi-	:	50 °C	

according to the OSHA Hazard Communication Standard



## **BENOX<sup>®</sup>L-40LV-EU**

Versio 1.2	n Revision Date: 10/28/2024	SD: 600	5 Number: 000000797	Date of last issue: 10/18/2022 Date of first issue: 09/05/2019
tio	on temperature (SADT)		Method: UN-Test SADT-Self Accele temperature at wi self-accelerating	H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
V	iscosity Viscosity, dynamic	:	ca. 1,000 mPa.s	(25 °C)
	Viscosity, kinematic	:	not determined	
E	xplosive properties	:	Not explosive	
O	oxidizing properties	:	The substance or Organic peroxide	mixture is not classified as oxidizing.
S	elf-heating substances	:	The substance or	mixture is not classified as self heating.
R	efractive index	:	No data available	
P P	article characteristics article size	:	Not applicable	

#### 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
Hazardous decomposition products	:	Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

according to the OSHA Hazard Communication Standard



## **BENOX<sup>®</sup>L-40LV-EU**

Version Revisi 1.2 10/28/

Revision Date: 10/28/2024

SDS Number: 600000000797

Date of last issue: 10/18/2022 Date of first issue: 09/05/2019

#### SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity	Acute toxicity						
Not classified due to lack of data	l.						
<u>Components:</u>							
Dibenzoyl peroxide:							
Acute oral toxicity :	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral tox- icity						
Acute inhalation toxicity :	LC50 (Rat): > 24.3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity						
Acute dermal toxicity :	Remarks: No data available						
Zinc stearate:							
Acute oral toxicity :	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral tox- icity						
Acute inhalation toxicity :	LC50 (Rat): > 200 mg/l Exposure time: 1 h Test atmosphere: dust/mist						
Acute dermal toxicity :	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity						
Skin corrosion/irritation							
Not classified due to lack of data	l.						
Product:							
Remarks :	May cause skin irritation in susceptible persons.						
Components:							
Dibenzoyl peroxide:Species:Exposure time:Method:	Rabbit 4 h OECD Test Guideline 404						
Result :	INO SKIN IRRITATION						

according to the OSHA Hazard Communication Standard



Version 1.2	Revision Date: 10/28/2024	SDS Number: 60000000079	<ul><li>Date of last issue: 10/18/2022</li><li>7 Date of first issue: 09/05/2019</li></ul>
Zinc	stearate:		
Speci	ies	· Rabbit	
Metho	bd	: Draize Te	st
Resul	lt	: No skin irr	itation
Serio	ous eye damage/eye	irritation	
Cause	es eye irritation.		
Produ	uct:		
Rema	arks	: Vapors ma and the sk	ay cause irritation to the eyes, respiratory system tin.
<u>Com</u>	ponents:		
Diber	nzoyl peroxide:		
Speci	ies	: Rabbit	
Resul	lt	: Irritation to	o eyes, reversing within 7 days
Zinc	stearate:		
Speci	ies	: Rabbit	
Resul	lt	: No eye irri	itation
Metho	Da	: Draize re	St
Resp	iratory or skin sensi	tization	
Skin	sensitization		
May c	cause an allergic skin	reaction.	
Resp	iratory sensitization		
Not cl	lassified due to lack o	f data.	
Produ	uct:		
Rema	arks	: Causes se	ensitization.
<u>Com</u> r	ponents:		
Diber	nzovl peroxide:		
Route	es of exposure	: Skin conta	act
Speci	ies .	: Mouse	
Metho	bd	: Local lymp	oh node assay (LLNA)
Kesul	IT	: May cause	e sensitization by skin contact.
Zinc	stearate:		
Route	es of exposure	: Skin conta	act
Speci	les	: Guinea pi	g st Guideline 406
Resul	lt	: Does not	cause skin sensitization.
		1	2/22

according to the OSHA Hazard Communication Standard





Versio 1.2	on Revisi 10/28/	on Date: 2024	SE 60	9S Number: 0000000797	Date of last issue: 10/18/2022 Date of first issue: 09/05/2019
F	Remarks		:	Information giver substances.	is based on data obtained from similar
G	Germ cell mut Not classified of	<b>tagenicity</b> due to lack of d	ata.		
<u>c</u>	Components:				
<b>C</b>	<b>Dibenzoyl per</b> Genotoxicity in	r <b>oxide:</b> vitro	:	Method: OECD T Result: negative	est Guideline 471
				Method: OECD T Result: negative	est Guideline 476
G	Genotoxicity in	i vivo	:	Test Type: domin Species: Mouse Result: negative	nant lethal test
z	Zinc stearate:				
G	Genotoxicity in	vitro	:	Method: OECD T Result: negative Remarks: Inform similar substance	est Guideline 471 ation given is based on data obtained from es.
G	Genotoxicity in	i vivo	:	Test Type: Chror Species: Rat Result: Equivoca	nosomal aberration
C N	Carcinogenic	<b>ity</b> due to lack of d	ata.		
<u>c</u>	Components:				
C	Dibenzoyl per	oxide:			
F	Remarks		:	This information	is not available.
L	ARC	No ingredient identified as p	of t prob	his product preser able, possible or c	t at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.
C	DSHA	No componer on OSHA's lis	nt of st of	this product prese regulated carcino	ent at levels greater than or equal to 0.1% is gens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### Reproductive toxicity

Not classified due to lack of data.

according to the OSHA Hazard Communication Standard



Vers 1.2	sion	Revision Date: 10/28/2024	SD 60	S Number: 0000000797	Date of last issue: 10/18/2022 Date of first issue: 09/05/2019
	Compo	onents:			
	<b>Dibenzoyl peroxide:</b> Effects on fertility :		Species: Rat, mal Application Route General Toxicity F Method: OECD Te	e : Oral Parent: NOAEL: 1,000 mg/kg body weight est Guideline 422	
				Species: Rat, fem Application Route General Toxicity F Method: OECD Te	ale : Oral Parent: NOAEL: 500 mg/kg body weight est Guideline 422
	Reprod sessme	uctive toxicity - As- ent	:	No evidence of ac or on developmen	lverse effects on sexual function and fertility, t, based on animal experiments.
	Zinc st	earate:			
	Effects	on fertility	:	Species: Rat Application Route General Toxicity F Method: OECD Te Remarks: Based of	: oral (gavage) 1: NOAEL: 7.5 mg/kg body weight est Guideline 416 on data from similar materials
	Effects	on fetal development	:	Species: Mouse Application Route General Toxicity M Teratogenicity: NO Remarks: Based o	: oral (gavage) /aternal: NOAEL: 30 mg/kg body weight DAEL: 30 mg/kg body weight on data from similar materials
	STOT-s	<b>single exposure</b> ssified due to lack of da	ata.		
	Compo	onents:			
	<b>Dibenz</b> Routes Assess	oyl peroxide: of exposure ment	:	Ingestion The substance or organ toxicant, sir	mixture is not classified as specific target Igle exposure.
	STOT-r	repeated exposure ssified due to lack of da	ata.		
	Compo	onents:			
	Dibenz	oyl peroxide:			
	Routes Assess	of exposure ment	:	Ingestion The substance or organ toxicant, rep	mixture is not classified as specific target beated exposure.

according to the OSHA Hazard Communication Standard



## **BENOX<sup>®</sup>L-40LV-EU**

Version	Revision Date:	SDS Number:	Date of last issue: 10/18/2022
1.2	10/28/2024	600000000797	Date of first issue: 09/05/2019

#### Repeated dose toxicity

#### Components:

#### Dibenzoyl peroxide:

Species NOAEL Application Route Exposure time Method		Rat 1,000 mg/kg Oral 28 d OECD Test Guideline 422
Zinc stearate:		
Species NOAEL Application Route Method	: :	Mouse 458 mg/kg Oral OECD Test Guideline 408
Aspiration toxicity Not classified due to lack of da	ata.	
Components:		
Dibenzoyl peroxide:		

No aspiration toxicity classification

#### **Further information**

#### Product:

Remarks

: No data available

#### Components:

Zinc stearate:		
Remarks	:	No data av

### No data available

#### SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	

#### Product:

#### **Ecotoxicology Assessment**

Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.

according to the OSHA Hazard Communication Standard



Vers 1.2	sion	Revision Date: 10/28/2024	SD 60	S Number: 0000000797	Date of last issue: 10/18/2022 Date of first issue: 09/05/2019
	Compo	onents:			
	Dibenz	oyl peroxide:			
	Toxicity	/ to fish	:	EC50 (Oncorhyr Exposure time: 9 Method: OECD	nchus mykiss (rainbow trout)): 0.06 mg/l 96 h Test Guideline 203
	Toxicity aquatic	/ to daphnia and other invertebrates	:	EC50 (Daphnia Exposure time: 4 Method: OECD	magna (Water flea)): 0.11 mg/l 48 h Test Guideline 202
	Toxicity plants	/ to algae/aquatic	:	EC50 (Pseudoki mg/l Exposure time: 7 Method: OECD	rchneriella subcapitata (green algae)): 0.071 72 h Test Guideline 201
				NOEC (Pseudok mg/l Exposure time: 7 Method: OECD	kirchneriella subcapitata (green algae)): 0.02 72 h Test Guideline 201
	M-Fact icity)	or (Acute aquatic tox-	:	10	
	Toxicity aquatic ic toxic	/ to daphnia and other invertebrates (Chron- ity)	:	EC10 (Daphnia Exposure time: 2 Test Type: semi Method: OECD	magna (Water flea)): 0.001 mg/l 21 d -static test Test Guideline 211
	M-Fact toxicity	or (Chronic aquatic )	:	10	
	Toxicity	/ to microorganisms	:	EC50 (Bacteria) Exposure time: 3 Method: OECD	: 35 mg/l 30 min Test Guideline 209
	Ecotox	cicology Assessment			
	Acute a	aquatic toxicity	:	Very toxic to aqu	uatic life.
	Chronic	c aquatic toxicity	:	Very toxic to aqu	atic life with long lasting effects.
	Zinc st	earate:			
	Toxicity	/ to fish	:	LC50 (Danio rer Exposure time: § Method: Directiv	io (zebra fish)): > 10,000 mg/l 96 h e 67/548/EEC, Annex V, C.1.
	Toxicity aquatic	/ to daphnia and other invertebrates	:	LC50 (Daphnia r Exposure time: 4 Method: OECD	magna (Water flea)): > 100 mg/l 48 h Test Guideline 202

according to the OSHA Hazard Communication Standard



Versic 1.2	on Revision Date: 10/28/2024	SI 60	DS Number: 00000000797	Date of last issue: 10/18/2022 Date of first issue: 09/05/2019
Т р	oxicity to algae/aquatic	:	EL50 (Pseudokiro mg/l Exposure time: 72 Method: OECD T	chneriella subcapitata (green algae)): > 100 2 h est Guideline 201
Т	oxicity to microorganisms	:	NOEC (Pseudom Exposure time: 0. Method: DIN 38 4	onas putida): 1,000 mg/l 5 h 12 Part 8
P	Persistence and degradabi	lity		
<u>c</u>	Components:			
D	Dibenzoyl peroxide:			
B	Biodegradability	:	Result: Biodegrac Method: OECD T	lable est Guideline 301D
z	linc stearate:			
B	Biodegradability	:	Result: Readily bi Method: OECD T	odegradable. est Guideline 301D
B	Bioaccumulative potential			
<u>c</u>	Components:			
D P o	Dibenzoyl peroxide: Partition coefficient: n- octanol/water	:	log Pow: 3.2 (20 °	°C)
<b>Z</b> P o	<b>Zinc stearate:</b> Partition coefficient: n- octanol/water	:	Remarks: No data	a available
N	<b>lobility in soil</b> lo data available			
C	Other adverse effects			
P C	Product: Dzone-Depletion Potential	:	Regulation: 40 CF tection of Stratosp Substances Remarks: This pro- tured with a Class Clean Air Act Sec	FR Protection of Environment; Part 82 Pro- oheric Ozone - CAA Section 602 Class I oduct neither contains, nor was manufac- s I or Class II ODS as defined by the U.S. tion 602 (40 CFR 82, Subpt. A, App.A + B).
A m	Additional ecological infor- nation	:	An environmental unprofessional ha Very toxic to aqua	hazard cannot be excluded in the event of andling or disposal. atic life with long lasting effects.

according to the OSHA Hazard Communication Standard



## **BENOX<sup>®</sup>L-40LV-EU**

Version	Revision Date:	SDS Number:	Date of last issue: 10/18/2022
1.2	10/28/2024	60000000797	Date of first issue: 09/05/2019

#### **Components:**

#### Zinc stearate:

Additional ecological infor- : No data available mation

#### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	<ul> <li>Dispose of wastes in an approved waste disposal facility. The product should not be allowed to enter drains, water courses or the soil.</li> <li>Do not contaminate ponds, waterways or ditches with chemical or used container.</li> </ul>
Contaminated packaging	<ul> <li>Dispose of in accordance with local regulations. Clean container with water. Dispose of contents/ container to an approved waste disposal plant. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.</li> </ul>

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

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

according to the OSHA Hazard Communication Standard



## **BENOX<sup>®</sup>L-40LV-EU**

Version	Revision Date:	SDS Number:	Date of last issue: 10/18/2022
1.2	10/28/2024	60000000797	Date of first issue: 09/05/2019

#### IMDG-Code

UN number	:	UN 3107
Proper shipping name	:	ORGANIC PEROXIDE TYPE E, LIQUID
		(DIBENZOYL PEROXIDE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
EmS Code	:	F-J, S-R
Marine pollutant	:	ves

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

Not applicable for product as supplied.

#### Domestic regulation

<b>49 CFR</b> UN/ID/NA number Proper shipping name	:	UN 3107 Organic peroxide type E, liquid (Dibenzoyl peroxide, <=42%)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	ORGANIC PEROXIDE
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

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	Organic peroxides Respiratory or skin sensitization Serious eye damage or eye irritation	
SARA 313	The following components are subject to reporting levels established by SARA Title III, Section 313:	
	Dibenzoyl perox- 94-36-0 ide	

according to the OSHA Hazard Communication Standard





Version	Revision Date:	SDS Number:	Date of last issue: 10/18/2022
1.2	10/28/2024	60000000797	Date of first issue: 09/05/2019

Zinc stearate 557-05-1

#### **Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Zinc stearate 557-05-1

This product does not contain any priority pollutants related to the U.S. Clean Water Act

#### California Prop. 65

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

#### International Regulations

Gefahrgruppe nach TRGS 741: II (German regulatory requirements)

The ingredients of this product are reported in the following inventories:			
TCSI (TW)	:	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	

#### **TSCA** list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

according to the OSHA Hazard Communication Standard



## **BENOX<sup>®</sup>L-40LV-EU**

Version	Revision Date:	SDS Number:	Date of last issue: 10/18/2022
1.2	10/28/2024	60000000797	Date of first issue: 09/05/2019

#### SECTION 16. OTHER INFORMATION

Full text of other abbreviation	ons	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

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

according to the OSHA Hazard Communication Standard



## **BENOX<sup>®</sup>L-40LV-EU**

Version	Revision Date: 10/28/2024	SDS Number:	Date of last issue: 10/18/2022
1.2		600000000797	Date of first issue: 09/05/2019

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 Data Sheet

: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Revision Date : 10/28/2024

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.

US / Z8