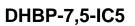
according to the Hazardous Products Regulations





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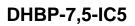
SECTION 1. IDENTIFICATION

Trade name :		DHBP-7,5-IC5		
Other means of identification	:	No data available		
Manufacturer or supplier's de	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): +1-800-424-93 CHEMTREC WORLD (24h): +1-703-527-38 CANUTEC (24h): 1-613-996-666		
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 chemerator of the chemera		nical and restrictions on use polymerization initiators		

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations					
Combustible dust	: Category 1				
Not a hazardous substance	or mixture.				
GHS label elements					
Signal Word	: Warning				
Hazard Statements	: May form combustible dust concentrations in air.				

according to the Hazardous Products Regulations





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Precautionary Statements		heavy metal salts materials. P233 Keep conta P235 Keep cool.	e away from clothing/ strong acids, bases, s and other reducing substances /combustible ainer tightly closed. ective gloves/ protective clothing/ eye protection/
		Disposal: P501 Dispose of posal plant.	contents/ container to an approved waste dis-
Other	hazards		

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
---------------------	---	---------

Chemical nature : Solid mixture

Components

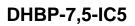
Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
1-Propene, Polymer with Ethene	1-Propene, Pol- ymer with Eth- ene	9010-79-1	>= 90 - < 95 *
2,5-Dimethyl-2,5- di(tert butylperoxy)hexane	2,5-Dimethyl- 2,5-di(tert bu- tylperoxy)hexan e	78-63-7	>= 5 - < 7.5 *

* Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

Never give anything by mouth to an unconscious p If unconscious, place in recovery position and see advice. Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor attendance.

according to the Hazardous Products Regulations





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lf	inhaled	: Administer o observed. If breathed ir If not breathi If unconsciou advice.	the victim unattended. xygen if breathing is difficult or cyanosis is n, move person into fresh air. ng, give artificial respiration. us, place in recovery position and seek medical persist, call a physician.		
In	a case of skin contact	In case of cc for at least 1 and shoes. Wash contar If on skin, rin	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	of water and Remove con Protect unha Keep eye wi			
lf	swallowed	Keep respira	thoroughly with water. tory tract clear. persist, call a physician.		
a	lost important symptoms nd effects, both acute and elayed	: None known			
Ρ	rotection of first-aiders		bonders should pay attention to self-protection recommended protective clothing		
Ν	otes to physician	: Treat sympto	pmatically 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	:	Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

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	Specific extinguishing meth- ods		:	Risk of explosion if heated under confinement. Possible emission of gaseous decomposition products may lead to a dangerous pressure build-up. Avoid confinement. The product burns violently. Do not allow run-off from fire fighting to enter drains or water courses. Do not use a solid water stream as it may scatter and spread fire. Remove undamaged containers from fire area if it is safe to do		
				SO.	o cool unopened containers.	
	Further information		:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. T must not be discharged into drains. Fire residues and contaminated fire extinguishing water mu be disposed of in accordance with local regulations.		
	Special protective equipment : for fire-fighters		:	Wear self-contain 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	:	 Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Follow safe handling advice and personal protective equipment recommendations. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. May form combustible dust concentrations in air during processing, handling or other means. Treat recovered material as described in the section "Disposal considerations".
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. 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	:	Take any precaution to avoid mixing with combustibles.

according to the Hazardous Products Regulations



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contai	nment and cleaning up	To clean the floo material, use ple Soak up with ine Local or national disposal of this n employed in the	or and all objects contaminated by this

SECTION 7. HANDLING AND STORAGE

Fechnical measures	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.	
Advice on protection against ire and explosion	Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.	
Advice on safe handling	 Avoid dust accumulation in enclosed space. Avoid dust formation. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling Take precautionary measures against static discharges when there is a risk of dust explosion. Use dust explosion-proof type electric equipment and lighting Electrically conductive containers must be grounded. Apply measures to prevent dust explosions. May form combustible dust concentrations in air during processing, handling or other means. 	n
	Do not swallow. Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms Smoking, eating and drinking should be prohibited in the application area. Wash thoroughly after handling. For personal protection see section 8.	5.
Conditions for safe storage	Take measures to prevent the build up of electrostatic charge Contamination may result in dangerous pressure increases - closed containers may rupture. Store in accordance with the particular national regulations. Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage.	
Advice on safe handling	 (which might cause ignition of organic vapors). Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid dust accumulation in enclosed space. Avoid dust formation. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling Take precautionary measures against static discharges where there is a risk of dust explosion. Use dust explosion-proof type electric equipment and lighting Electrically conductive containers must be grounded. Apply measures to prevent dust explosions. May form combustible dust concentrations in air during processing, handling or other means. Do not swallow. Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms Smoking, eating and drinking should be prohibited in the application area. Wash thoroughly after handling. For personal protection see section 8. Take measures to prevent the build up of electrostatic charge Contamination may result in dangerous pressure increases - closed containers may rupture. Store in accordance with the particular national regulations. Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and 	

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Mate	rials to avoid	:	Keep away from a other reducing su	strong acids, bases, heavy metal salts and bstances.
Reco perat	mmended storage tem- ure	:	< 40 °C	
	er information on stor- stability	:	No decomposition	n if stored normally.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures :	Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Minimize workplace exposure concentrations.	
Personal protective equipment	t i i i i i i i i i i i i i i i i i i i	
Respiratory protection :	In the case of dust or aerosol formation use respirator with an approved filter.	
Filter type :	Filter type P	
	Use NIOSH approved respiratory protection.	
Hand protection Material : Break through time : Glove thickness :	butyl-rubber 480 min 0.47 mm	
Material : Break through time : Glove thickness :	Nitrile rubber 480 min 0.40 mm	
Remarks :	The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.	

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		resistance gloves wit	al applications, we recommend clarifying the to chemicals of the aforementioned protective h the glove manufacturer. Wash hands before d at the end of workday.
Eye p	protection	to the wor Please fol selecting p Always we eye conta Tightly fitti Please we	at eyewash stations and safety showers are close kstation location. low all applicable local/national requirements when protective measures for a specific workplace. ear eye protection when the potential for inadvertent ct with the product cannot be excluded. ng safety goggles ear suitable protective goggles. Also wear face if there is a splash hazard.
Skin a	and body protection		propriate protective clothing based on chemical data and an assessment of the local exposure
		task being disposable Wear as a	body garments should be used based upon the performed (e.g., sleevelets, apron, gauntlets, e suits) to avoid exposed skin surfaces. ppropriate: ardant antistatic protective clothing.
Prote	ctive measures	to the con	of protective equipment must be selected according centration and amount of the dangerous substance cific workplace.
Hygie	ene measures	Keep awa When usir When usir	tact with skin, eyes and clothing. y from food and drink. ng do not eat or drink. ng do not smoke. ds before breaks and immediately after handling ct.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	solid, Beads
Color	:	white
Odor	:	ether-like
Odor Threshold	:	not determined
рН	:	No data available substance/mixture is non-soluble (in water)
Melting point/ range	:	Decomposition: Decomposes below the melting point.

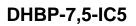
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	Boiling	point/boiling range	:	Not applicable	
	Flash p	oint	:	Not applicable	
	Evapor	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	ssing, handling o	stible dust concentrations in air during proce- r other means. ct will burn but does not easily ignite.
	Self-igr	hition	:	The substance of	r mixture is not classified as pyrophoric.
		explosion limit / Upper bility limit	:	Upper explosion No data available	
		explosion limit / Lower bility limit	:		limit plosive concentration (MEC) for dust varies icle size distribution.
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	not determined	
	Relative	e density	:	not determined	
	Density	,	:	not determined	
	Bulk de	ensity	:	ca. 380 kg/m3	
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Solu	ubility in other solvents	:	No data available)
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Autoigr	nition temperature	:	not determined	
		celerating decomposi- nperature (SADT)	:	temperature at w	t H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
	Viscosi Visc	ty cosity, dynamic	:	Not applicable	
	Visc	osity, kinematic	:	Not applicable	

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Explo	osive properties	: Not explosiv	ve Avoid dust formation.
Oxidi	zing properties	: The substar	nce or mixture is not classified as oxidizing.
Self-h	neating substances	: The substar	nce or mixture is not classified as self heating.
Available oxygen content		: ca. 0.8 %	
	cle characteristics cle size	: not determir	ned
Partic	cle Size Distribution	: No data ava	ilable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under recommended storage conditions. No decomposition if stored normally.
Possibility of hazardous reac- tions	:	May form combustible dust concentrations in air.
Conditions to avoid	:	Avoid dust formation.
		Protect from contamination.
Incompatible materials	:	Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents
		Not applicable
Hazardous decomposition products	:	Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

SECTION 11. TOXICOLOGICAL INFORMATION

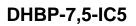
Acute toxicity

Not classified based on available information.

Components:

1-Propene, Polymer with Ethene:				
Acute oral toxicity	Assessment: The substa	nce or mixture has no acute oral tox-		
Acute inhalation toxicity	Assessment: The substa	nce or mixture has no acute inhala-		

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			tion toxicity		
			tion toxicity		
Acute	e dermal toxicity	:	Assessment: T toxicity	he substance or mixture has no acute derma	
2,5-D) imethyl-2,5-di(tertb	utylpe	eroxy)hexane:		
Acute	e oral toxicity	:	Method: OECD Assessment: T icity	e and female): > 2,000 mg/kg Test Guideline 401 he substance or mixture has no acute oral to nortality observed at this dose.	
Acute	e inhalation toxicity	:	Remarks: stud	v scientifically unjustified	
Acute	e dermal toxicity	:	: LD50 (Rabbit): 4,100 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dern toxicity		
Skin	corrosion/irritation				
Not c	lassified based on ava	ailable	information.		
Prod	uct:				
Rem	arks	:	: May cause skin irritation and/or dermatitis.		
<u>Com</u>	ponents:				
	ponents: opene, Polymer with	Ethen	e:		
	opene, Polymer with	Ethen :	e: No skin irritatio	n	
1 -Pro Resu	opene, Polymer with	:	No skin irritatio	n	
1 -Pro Resu	opene, Polymer with It Dimethyl-2,5-di(tertb	:	No skin irritatio	n	
1-Pro Resu 2,5-D Spec Expo	ppene, Polymer with It Dimethyl-2,5-di(tertb ies sure time	:	No skin irritatio eroxy)hexane: Rabbit 4 h		
1-Pro Resu 2,5-D Spec Expo Meth	bpene, Polymer with It Dimethyl-2,5-di(tertb ies sure time od	:	No skin irritatio eroxy)hexane: Rabbit 4 h OECD Test Gu		
1-Pro Resu 2,5-D Spec Expo	bpene, Polymer with It Dimethyl-2,5-di(tertb ies sure time od	:	No skin irritatio eroxy)hexane: Rabbit 4 h		
1-Pro Resu 2,5-D Spec Expo Meth Resu Seric	opene, Polymer with It Dimethyl-2,5-di(tertb ies sure time od It Dus eye damage/eye	utylpe : : : : : :	No skin irritatio eroxy)hexane: Rabbit 4 h OECD Test Gu Skin irritation		
1-Pro Resu 2,5-D Spec Expo Meth Resu Seric	ppene, Polymer with It Pimethyl-2,5-di(tertb ies sure time od It	utylpe : : : : : :	No skin irritatio eroxy)hexane: Rabbit 4 h OECD Test Gu Skin irritation		
1-Pro Resu 2,5-D Spec Expo Meth Resu Seric	ppene, Polymer with It Dimethyl-2,5-di(tertb ies sure time od It Dus eye damage/eye classified based on ava	utylpe : : : : : :	No skin irritatio eroxy)hexane: Rabbit 4 h OECD Test Gu Skin irritation		
1-Pro Resu 2,5-D Spec Expo Meth Resu Seric	ppene, Polymer with It Dimethyl-2,5-di(tertb ies sure time od It Dus eye damage/eye ilassified based on ava	utylpe : : : : : :	No skin irritatio eroxy)hexane: Rabbit 4 h OECD Test Gu Skin irritation on information.		
1-Pro Resu 2,5-D Spec Expo Meth Resu Seric Not c Prod Rema	ppene, Polymer with It Dimethyl-2,5-di(tertb ies sure time od It Dus eye damage/eye ilassified based on ava	utylpe : : : : : :	No skin irritatio Proxy)hexane: Rabbit 4 h OECD Test Gu Skin irritation on information. Product dust m	ideline 404	
1-Pro Resu 2,5-D Spec Expo Meth Resu Seric Not c Prod Rema	opene, Polymer with It Dimethyl-2,5-di(tertb ies sure time od It Dus eye damage/eye classified based on ava uct: arks	utylpe : irritati ailable :	No skin irritatio eroxy)hexane: Rabbit 4 h OECD Test Gu Skin irritation on information. Product dust m system.	ideline 404	
1-Pro Resu 2,5-D Spec Expo Meth Resu Seric Not c Prod Rema	ppene, Polymer with lt Dimethyl-2,5-di(tertb ies sure time od lt Dus eye damage/eye classified based on ava <u>uct:</u> arks ponents: ppene, Polymer with	utylpe : irritati ailable :	No skin irritatio eroxy)hexane: Rabbit 4 h OECD Test Gu Skin irritation on information. Product dust m system.	ideline 404 ay be irritating to eyes, skin and respiratory	

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2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

1-Propene, Polymer with Ethene:

Remarks

: Not classified due to data which are conclusive although insufficient for classification.

2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:

Test Type	:	Maximization Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.

Germ cell mutagenicity

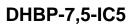
Not classified based on available information.

Components:

2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:

Genotoxicity in vitro :	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
	Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
Genotoxicity in vivo :	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse (male and female) Application Route: Oral Method: OECD Test Guideline 474 Result: negative

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Carcinogenicity

Not classified based on available information.

Components:

2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:

Remarks : This information is not available.

Reproductive toxicity

Not classified based on available information.

Components:

2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:

Effects on fetal development	:	Test Type: Prenatal development toxicity study (teratogenicity) Species: Rat Application Route: oral (gavage) General Toxicity Maternal: NOAEL: 300 mg/kg body weight Developmental Toxicity: 300 mg/kg body weight Method: OECD Test Guideline 414 GLP: yes
------------------------------	---	--

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:

Species NOAEL Application Route Exposure time Method GLP		Rat, male and female 200 mg/kg bw/day Oral 28 d OECD Test Guideline 407 yes
Species NOAEL Application Route Exposure time Method GLP	:	Rat, male and female 150 mg/kg bw/day Oral 90 OECD Test Guideline 408 yes

Aspiration toxicity

Not classified based on available information.

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Components:

2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane: Not classified due to data which are conclusive although insufficient for classification.

Further	information	

Product:

Remarks

: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

1-Propene, Polymer with Ethene:

Ecotoxicology Assessment

Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.

2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexane:

Toxicity to fish	LC50 (Oryzias latipes (Japanese medaka)): 4.5 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility.
Toxicity to algae/aquatic plants	EC50 (Pseudokirchneriella subcapitata (green algae)): >= 0.236 mg/l Exposure time: 72 h Test Type: Growth inhibition Analytical monitoring: yes Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility.
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	NOEC (Daphnia magna (Water flea)): > 0.0065 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211 Remarks: No toxicity at the limit of solubility.
Toxicity to microorganisms	NOEC (activated sludge): > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 Remarks: No toxicity at the limit of solubility.

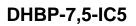
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Ecoto	oxicology Assessmen	t					
Acute	aquatic toxicity	:	This product ha	s no known ecotoxicological effects.			
Chror	nic aquatic toxicity	:	This product has no known ecotoxicological effects.				
Persi	stence and degradabi	lity					
<u>Comp</u>	ponents:						
1-Pro	pene, Polymer with E	ther	e:				
Biode	egradability	:	: Remarks: No data available				
2.5-D	imethyl-2,5-di(tertbu	tvlo	eroxy)hexane:				
	egradability	:	 Result: Readily biodegradable. Method: OECD Test Guideline 301D Remarks: Not classified due to data which are concl although insufficient for classification. 				
Bioad	ccumulative potential						
Com	ponents:						
1-Pro	pene, Polymer with E	ther	e:				
Bioac	cumulation	:	Remarks: No da	ata available			
	ion coefficient: n- ol/water	:	: Remarks: No data available				
2,5-D	imethyl-2,5-di(tertbu	tylp	eroxy)hexane:				
	cumulation	:		n factor (BCF): 521 - 839			
	ion coefficient: n- ol/water	:	log Pow: 7.34				
	lity in soil						
	ata available						
Other	r adverse effects						
Produ			No data availab				

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 Dispose of wastes in an approved waste disposal facility. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.
Contaminated packaging	 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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

TDG

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

Canadian PBT Chemicals	:	This product contains the following components on the DSL that are classified as Persistent, Bioaccumulative and/or Toxic (PBT) under CEPA: 2,5-Dimethyl-2,5-di(tertbutylperoxy)hexane		
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		

according to the Hazardous Products Regulations



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AIIC	(AU)	:	On the inventory,	or in compliance with the inventory
DSL	(CA)	:	All components o	f this product are on the Canadian DSL
ENCS	S (JP)	:	On the inventory,	or in compliance with the inventory
ISHL	(JP)	: On the inventory, or in compliance with the inventory		or in compliance with the inventory
KECI	(KR)	:	On the inventory,	or in compliance with the inventory
PICC	S (PH)	:	On the inventory,	or in compliance with the inventory
IECS	C (CN)	:	On the inventory,	or in compliance with the inventory
TECI	(TH)	:	On the inventory,	or in compliance with the inventory

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

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 Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumu-

according to the Hazardous Products Regulations



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lative 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

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 Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/

Revision Date	:	08/19/2024
Date format	:	mm/dd/yyyy

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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