SAFETY DATA SHEET

DHBP



Versio 1.2	n Revision Date: 07.03.2024		S Number: 000000007	Date of last issue: 29.04.2020 Date of first issue: 17.09.2018	
SECTI	SECTION 1: Identification of the hazardous chemical and of the supplier				
Р	roduct identifier				
Р	roduct name	:	DHBP		
С	hemical name		2.5-Dimethyl-2.5-	di-(tert-butylperoxy)hexane	
-	AS-No.	:	78-63-7		
	Recommended use of the chemical Recommended use		d restrictions on us polymerisation in		
Μ	anufacturer or supplier's c	letai	ils		
С	ompany	:	United Initiators (GmbH	
A	ddress	:	DrGustav-Adolp 82049 Pullach	h-Str. 3	
Т	elephone	:	+49 / 89 / 74422	- 0	
E	mergency telephone number	:	+49 / 89 / 74422	– 0 (24 h)	
E	-mail address	:	contact@united-i	n.com	

SECTION 2: Hazards identification

Classification of the hazardous chemical				
Organic peroxides	:	Туре С		
Skin corrosion/irritation	:	Category 2		
Label elements				
Hazard pictograms	:			
Signal word	:	Danger		
Hazard statements	:	H242 Heating may cause a fire. H315 Causes skin irritation.		
Precautionary statements	:	Prevention: P210 Keep away from heat/ sparks/ open flames/ hot surfaces.		



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		heavy metal s materials. P234 Keep of P264 Wash s	tore away from clothing/ strong acids, bases, salts and other reducing substances /combustible nly in original container. kin thoroughly after handling. rotective gloves/ eye protection/ face protection.
		P332 + P313 tion.	IF ON SKIN: Wash with plenty of soap and wate If skin irritation occurs: Get medical advice/ atter f contaminated clothing and wash before reuse.
		P411 + P235 104 °F. Keep	
		Disposal: P501 Dispose disposal plant	e of contents/ container to an approved waste

SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substance / Mixture	:	Substance
Chemical nature	:	Organic Peroxide liquid

Components

Chemical name	CAS-No.	Concentration (% w/w)
2,5-Dimethyl-2,5-di(tertbutylperoxy)hexane	78-63-7	<= 100

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 safety data shoet to the dector in attendance.
	Show this safety data sheet to the doctor in attendance.



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				Do not leave the v	ictim unattended.	
If inhaled		:	 Administer oxygen if breathing is difficult or cyanosis is ob served. If breathed in, move person into fresh air. If not breathing, give artificial respiration. If unconscious, place in recovery position and seek medica advice. If symptoms persist, call a physician. 			
Ir	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.		
Ir	n case	of eye contact	:	of water and seek Remove contact le Protect unharmed Keep eye wide op	enses. eye.	
lf	f swallo	owed	:	Call a physician in Rinse mouth thoro Keep respiratory t If symptoms persi	bughly with water.	
a		portant symptoms ects, both acute and	:	Causes skin irritat	ion.	
F	Protecti	on of first-aiders	:		rs should pay attention to self-protection mended protective clothing	
Ν	Notes to	o physician	:	Treat symptomation	cally and supportively.	

SECTION 5: Firefighting measures

Extinguishing media		
Suitable extinguishing media	:	Water spray jet Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet

Physicochemical hazards arising from the chemical

Specific hazards during fire- : Risk of explosion if heated under confinement.



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fighti		lead to a dan Avoid confine Contact with tures exceed composition may auto-ign The product Flash back p Do not allow courses. Vapours may The product water. Cool closed of	incompatible materials or exposure to tempera- ing SADT may result in a self-accelerating de- reaction with release of flammable vapors which ite. burns violently. ossible over considerable distance. run-off from fire fighting to enter drains or water r form explosive mixtures with air. will float on water and can be reignited on surface containers exposed to fire with water spray.
Spe	cial protective equipme	nt and precaution	ns for fire-fighters
	cial protective equipment refighters	essary.	ntained breathing apparatus for firefighting if nec- protective equipment.
Spec ods	cific extinguishing meth-	cumstances Use a water Collect conta must not be o Fire residues	shing measures that are appropriate to local cir- and the surrounding environment. spray to cool fully closed containers. minated fire extinguishing water separately. This discharged into drains. and contaminated fire extinguishing water must of in accordance with local regulations.
		fire. Remove unda so.	solid water stream as it may scatter and spread amaged containers from fire area if it is safe to do oray to cool unopened containers.
Hazo	chem Code	: 2WE	

SECTION 6: Accidental release measures

Personal precautions, protec- : tive equipment and emer- gency procedures	Follow safe handling advice and personal protective equip- ment recommendations. Beware of vapours accumulating to form explosive concentra- tions. Vapours 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



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	ds and materials for nment and cleaning up	tion at or below Clear spills imm Suppress (knocl spray jet. To clean the floo al, use plenty of Soak up with ine Isolate waste ar Non-sparking to Local or nationa posal of this ma employed in the	ompatible substances can cause decomposi- SADT. ediately. k down) gases/vapours/mists with a water or and all objects contaminated by this materi- water. ert absorbent material.

SECTION 7: Handling and storage

Handling

Precautions for safe handling	
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 vapours). Keep away from heat and sources of ignition. Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Keep away from combustible material. Do not spray on a naked flame or any incandescent material.
Advice on safe handling :	Open drum carefully as content may be under pressure. Protect from contamination. Do not swallow. Do not breathe vapours/dust. 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 was originally removed. Provide sufficient air exchange and/or exhaust in work rooms. Avoid confinement. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Smoking, eating and drinking should be prohibited in the ap- plication area. Wash thoroughly after handling. For personal protection see section 8.



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	Storage			
	Conditions for safe storage	e, ind	cluding any incon	npatibilities
Conditions for safe storage, Conditions for safe storageStore in original container. Keep containers tightly closed in a cool, well- Store in cool place. Keep in a well-ventilated place. Contamination may result in dangerous press closed containers may rupture. Observe label precautions. Store in accordance with the particular nation Avoid impurities (e.g. rust, dust, ash), risk of Electrical installations / working materials mu the technological safety standards. Containers which are opened must be careful 		tightly closed in a cool, well-ventilated place. e. htilated place. ay result in dangerous pressure increases - may rupture. ecautions. fe.g. rust, dust, ash), risk of decomposition. tions / working materials must comply with safety standards. are opened must be carefully resealed and		
I	Materials to avoid	:		combustible materials. strong acids, bases, heavy metal salts and lbstances.
	Recommended storage tem- perature	• :	10 - 40 °C	
	Further information on stor- age stability	:	Stable under reco	ommended storage conditions.

SECTION 8: Exposure controls and personal protection

Contains no substances with occupational exposure limit values.

Control parameters

Appropriate engineering : controls	Minimize workplace exposure concentrations.
Individual protection measure	s, such as personal protective equipment
Eye/face protection :	Ensure that eyewash stations and safety showers are close to the workstation location. Please follow all applicable local/national requirements when selecting protective measures for a specific workplace. Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Tightly fitting safety goggles Please wear suitable protective goggles. Also wear face pro- tection if there is a splash hazard.
Skin protection :	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.



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		task being p posable suit Wear as app	ody garments should be used based upon the erformed (e.g., sleevelets, apron, gauntlets, dis- s) to avoid exposed skin surfaces. propriate: lant antistatic protective clothing.
M: Br	protection aterial reak through time love thickness	: butyl-rubber : 480 min : 0.47 mm	
Br	aterial reak through time love thickness	: Nitrile rubber : 480 min : 0.40 mm	
Re	emarks	standard valu material has tive glove. C depending o ous substand plications, w cals of the a	but break through time/strength of material are ues! The exact break through time/strength of to be obtained from the producer of the protec- hoose gloves to protect hands against chemicals n the concentration and quantity of the hazard- ce and specific to place of work. For special ap- e recommend clarifying the resistance to chemi- forementioned protective gloves with the glove r. Wash hands before breaks and at the end of
Resp	iratory protection	: In the case of approved filt	of dust or aerosol formation use respirator with ar er.
Fi	lter type	: ABEK-filter	
Hygie	ene measures	Keep away f When using When using	et with skin, eyes and clothing. from food and drink. do not eat or drink. do not smoke. before breaks and immediately after handling

SECTION	9:	Physical	and	chemical	properties
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Appearance	:	liquid
Colour	:	colourless
Odour	:	ether-like

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Odour Th	reshold	:	No data available	
pН		:	substance/mixtur	e is non-soluble (in water)
Melting p	oint/freezing point	:	< 10 °C	
Initial boil range	ing point and boiling	:	Decomposition:	Decomposes below the boiling point.
Flash poir	nt	:	74 °C	
			Method: ISO 367	9
Evaporatio	on rate	:	No data available	
Flammab	ility (liquids)	:	Organic peroxide	
Self-ignition	on	:	The substance of	r mixture is not classified as pyrophoric.
Upper ex flammabil	plosion limit / Upper ity limit	:	Upper explosion not determined	limit
Lower ex flammabil	plosion limit / Lower ity limit	:	Lower explosion not determined	limit
Vapour p	ressure	:	< 0.01 hPa (20 °	C)
Relative v	apour density	:	not determined	
Relative of	density	:	not determined	
Density		:	0.88 g/cm3 (20 °	C)
Solubility Water	(ies) solubility	:	< 0.01 g/l insolub	le (20 °C)
Solubi	lity in other solvents	:	completely miscil Solvent: Alcohol	ble
			completely miscil Solvent: Esters	ble
Partition o	coefficient: n- ater	:	log Pow: 7.34 (20) °C)
Auto-ignit	ion temperature	:	not determined	
	lerating decomposi- erature (SADT)	:	90 °C Method: UN-Test SADT-Self Accel	H.4 erating Decomposition Temperature. Lowe



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			•	hich the tested package size will undergo a decomposition reaction.
Visco Vi	osity scosity, dynamic	:	8 mPa.s (20 °C)	
Viscosity, kinematic		:	not determined	
Explo	sive properties	:	Not explosive In air mixture.	use, may form flammable/explosive vapour-
Oxidizing properties		:	The substance or mixture is not classified as oxidizing. Organic peroxide	
Self-heating substances		:	The substance of	r mixture is not classified as self heating.
Refra	ctive index	:	1.422 (20 °C)	

SECTION	10:	Stability	and	reactivity
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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	:	Vapours may form explosive mixture with air.
Conditions to avoid	:	Protect from contamination. Contact with incompatible substances can cause decomposi- tion 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

SECTION 11: Toxicological information

Information on likely routes of : None known. exposure



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Acute	e toxicity						
Not cl	assified due to lack of	data.					
Product:							
Acute	e oral toxicity	Method: O Assessme icity	male and female): > 2,000 mg/kg ECD Test Guideline 401 nt: The substance or mixture has no acute oral to No mortality observed at this dose.				
Acute	inhalation toxicity	: Remarks:	study scientifically unjustified				
Acute	e dermal toxicity		bit): 4,100 mg/kg ECD Test Guideline 402				
<u>Comp</u>	oonents:						
2,5-Di	imethyl-2,5-di(tertb	utylperoxy)hexan	e:				
Acute	oral toxicity	Method: O Assessme icity	male and female): > 2,000 mg/kg ECD Test Guideline 401 nt: The substance or mixture has no acute oral to No mortality observed at this dose.				
Acute	inhalation toxicity	: Remarks:	study scientifically unjustified				
Acute	e dermal toxicity	Method: O	bit): 4,100 mg/kg ECD Test Guideline 402 nt: The substance or mixture has no acute derma				
Skin	corrosion/irritation						
Cause	es skin irritation.						
Produ Speci Expos Metho Resul	es sure time od	: Rabbit : 4 h : OECD Tes : Skin irritati	t Guideline 404 on				
Rema	ırks	: May cause	skin irritation in susceptible persons.				
<u>Comp</u>	oonents:						
2,5-Di	imethyl-2,5-di(tertb	utylperoxy)hexan	e:				
Speci	es	: Rabbit					
Expos	sure time	: 4 h					
Metho Resul			OECD Test Guideline 404				
	T	: Skin irritati	on				

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.



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<u>Prod</u> Spec Resu Meth	ies It	•	irritation Fest Guideline 405		
Remarks		•	Vapours may cause irritation to the eyes, respiratory system and the skin.		
Com	ponents:				
2,5-D	imethyl-2,5-di(tertb	utylperoxy)he>	ane:		
Resu	Species Result Method		Rabbit No eye irritation OECD Test Guideline 405		

Respiratory or skin sensitisation

Skin sensitisation

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Not classified due to lack of data.

Product:

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

Components:

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

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

Germ cell mutagenicity

Not classified due to lack of data.

Product:

Genotoxicity in vitro	Meta Meth	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



rsion	Revision Date: 07.03.2024		0000000007	Date of last issue: 29.04.2020 Date of first issue: 17.09.2018
Geno	toxicity in vivo	:	cytogenetic ass Species: Mouse Application Rout	(male and female)
<u>Com</u> p	oonents:			
2,5-D	imethyl-2,5-di(tertbı	utylpe	roxy)hexane:	
Genot	toxicity in vitro	:		s test tion: with and without metabolic activation Test Guideline 471
			Test system: mo Metabolic activa	ro mammalian cell gene mutation test buse lymphoma cells tion: with and without metabolic activation Test Guideline 476
Geno	toxicity in vivo	:	cytogenetic ass Species: Mouse Application Rout	(male and female)
	nogenicity lassified due to lack of	data.		
Produ	uct:			
Rema	irks	:	This information	is not available.
<u>Com</u>	<u>oonents:</u>			
2,5-D	imethyl-2,5-di(tertbı	utylpe	roxy)hexane:	
Rema	ırks	:	This information	is not available.
-	oductive toxicity lassified due to lack of	data.		
<u>Prod</u>	uct:			
Effect ment	s on foetal develop-	:	Species: Rat Application Rout General Toxicity Developmental	atal development toxicity study (teratogenicity e: oral (gavage) Maternal: NOAEL: 300 mg/kg body weight Toxicity: 300 mg/kg body weight Test Guideline 414



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Components:

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

Effects on foetal develop- : ment	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
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STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Product:

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

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 due to lack of data.



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<u>Product:</u> Not classified	I due to data whic	ch are	conclusive a	Ithough insufficient for classification.
<u>Components</u>	<u>S:</u>			
-	I -2,5-di(tertbuty I due to data whic	-	•••	Ithough insufficient for classification.
Further info	rmation			
<u>Product:</u> Remarks		: N	o data availa	ble
CTION 12: Eco	ological informa	ition		
Ecotoxicity				
Product:				
Toxicity to fis	h	E: Te M	xposure time est Type: se ethod: OEC	a latipes (Japanese medaka)): 4.5 mg/l e: 96 h mi-static test D Test Guideline 203 toxicity at the limit of solubility
Toxicity to algorithm of the second s	gae/aquatic	0. E: Te Ai M	236 mg/l xposure time est Type: Gr nalytical mor ethod: OEC	owth inhibition
•	aphnia and other rebrates (Chron-	E: Te M	xposure time est Type: se ethod: OEC	ia magna (Water flea)): > 0.0065 mg/l e: 21 d mi-static test D Test Guideline 211 toxicity at the limit of solubility
Toxicity to m	icroorganisms	E: Te M	xposure time est Type: Re ethod: OEC	ed sludge): > 1,000 mg/l e: 3 h spiration inhibition D Test Guideline 209 toxicity at the limit of solubility
Components				

, , , ,		57
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



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			Remarks: No toxi	city at the limit of solubility
Toxicity to plants	o algae/aquatic	:	0.236 mg/l Exposure time: 72 Test Type: Growth Analytical monitor Method: OECD Te	n inhibition ing: yes
	o daphnia and other vertebrates (Chron-)	:	Exposure time: 22 Test Type: semi-s Method: OECD Te	static test
Toxicity to	o microorganisms	:	Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
Ecotoxic	ology Assessment			
Acute aqu	uatic toxicity	:	This product has	no known ecotoxicological effects.
Chronic a	quatic toxicity	:	This product has	no known ecotoxicological effects.
Persisten	ce and degradabil	ity		
Product:				
Biodegrac	lability	:	Remarks: Not clas	odegradable. est Guideline 301D ssified due to data which are conclusiv ent for classification.
<u>Compone</u>	ents:			
2,5-Dime	thyl-2,5-di(tertbuty	lpe	roxy)hexane:	
Biodegrac	lability	:	Remarks: Not clas	odegradable. est Guideline 301D ssified due to data which are conclusiv ent for classification.
Bioaccur	nulative potential			
Product:				
Bioaccum	ulation	:	Bioconcentration	factor (BCF): 521 - 839
<u>Compone</u>	ents:			
-	thyl-2,5-di(tertbuty	Inc	rovy)boyono	

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



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Partiti	cumulation ion coefficient: n- ol/water	:	Bioconcentration log Pow: 7.34	factor (BCF): 521 - 839
No da	lity in soil ata available r adverse effects			
<u>Produ</u> Additi matio	onal ecological infor-	:	No data available	

SECTION 13: Disposal information

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 chemi- cal 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. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

International Regulations

UNRTDG		
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UN number Brener abipping name	:	UN 3103
Proper shipping name	•	ORGANIC PEROXIDE TYPE C, LIQUID (2,5-DIMETHYL-2,5-DI-(tert-BUTYLPEROXY)HEXANE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	UN 3103
Proper shipping name	:	Organic peroxide type C, liquid
		(2,5-Dimethyl-2,5-di-(tert-butylperoxy)-hexane)
Class	:	5.2
Packing group	:	Not assigned by regulation



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aircraft)	g instruction (passen-	:	570	s, Keep Away From Heat
Class Packing Labels EmS C	nber shipping name g group	:		XIDE TYPE C, LIQUID 5-DI-(tert-BUTYLPEROXY)HEXANE) egulation

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

Not applicable for product as supplied.

Hazchem Code : 2WE

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

Safety, health, and environmental regulations specific for the hazardous chemical

Gefahrgruppe nach TRGS 741: lb, S+ (German regulatory requirements) Produkt unterliegt dem Sprengstoffgesetz (SprengG; Stoffgruppe C). (German regulatory requirement)

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

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
ENCS (JP)	:	On the inventory, or in compliance with the inventory

The components of this product are reported in the following inventories:

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ISHL	(JP)	:	On 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

SECTION 16: Other information		
Revision Date	:	07.03.2024
Further information		
Other information	:	This safety datasheet only contains information relating to safety and does not replace any product information or prod- uct 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 con- tainer.
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
Date format	:	dd.mm.yyyy

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;



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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, 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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