

Vers 3.0	sion	Revision Date: 16.04.2024		S Number: 000000003	Date of last issue: 20.07.2023 Date of first issue: 20.10.2016
SEC	SECTION 1: IDENTIFICATION Product name		:	TBPIN	
	Manufa	cturer or supplier's c	letai	ls	
	Compar	у	:	United Initiators F	Pty Ltd
	Address	;	:	20-22 McPhersor Banksmeadow N	n Street SW 2019 Australia
	Telepho	ne	:	+61 2 9188 3690	(Monday-Friday office hours only)
	Emerge	ncy telephone number	:	+49 89 744220 (2	24 hours specialist advise)
	E-mail a	address	:	cs-initiators.au@	united-in.com
		mended use of the ch nended use	nemi :		

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Organic peroxides	:	Туре D
Skin sensitisation	:	Sub-category 1B
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 3
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H242 Heating may cause a fire.H317 May cause an allergic skin reaction.H400 Very toxic to aquatic life.H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements		and other igni P234 Keep or P240 Ground P261 Avoid bi P272 Contami the workplace P273 Avoid re P280 Wear pr	 Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P234 Keep only in original packaging. P240 Ground and bond container and receiving equipment. P261 Avoid breathing mist or vapours. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. 					
		P333 + P313 vice/ attention P362 + P364 reuse. P370 + P378	Take off contaminated clothing and wash it befor In case of fire: Use water spray, alcohol-resistan mical or carbon dioxide to extinguish.					
		P410 Protect P411 Store	in a well-ventilated place. ct from sunlight. at temperatures not exceeding < 30 °C/ < 86 °F. separately.					
		Disposal:	of contents/ container to an approved waste					

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Substance
Chemical nature	:	Organic Peroxide liquid
Substance name	:	tert-butyl 3,5,5-trimethylperoxyhexanoate
CAS-No.	:	13122-18-4

Components

Chemical name	CAS-No.	Concentration (% w/w)
tert-butyl 3,5,5-trimethylperoxyhexanoate	13122-18-4	<= 100



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SECTION 4. FIRST AID MEASURES

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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 sheet to the doctor in attendance. Do not leave the victim 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 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 : May cause an allergic skin reaction. and effects, both acute and sensitising effects delayed Protection of first-aiders First Aid responders should pay attention to self-protection : and use the recommended protective clothing Notes to physician Treat symptomatically and supportively. :

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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray jet Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire- fighting	:	Risk of explosion if heated under confinement. Possible emission of gaseous decomposition products may lead to a dangerous pressure build-up. Avoid confinement. Contact with incompatible materials or exposure to tempera- tures exceeding SADT may result in a self-accelerating de- composition reaction with release of flammable vapors which may auto-ignite. The product burns violently. Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or water courses. Vapours may form explosive mixtures with air. The product will float on water and can be reignited on surface water. Cool closed containers exposed to fire with water spray.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use a water spray to cool fully closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. 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. Use water spray to cool unopened containers.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.
Hazchem Code	:	2WE

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

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Envir	Environmental precautions		Prevent further lea	om entering drains. akage or spillage if safe to do so. aminates rivers and lakes or drains inform ies.
	ods and materials for ainment and cleaning up	:	tion at or below S. Clear spills immed Suppress (knock of spray jet. To clean the floor al, use plenty of w Soak up with inert Isolate waste and Non-sparking tool Local or national of posal of this mate employed in the c	liately. down) gases/vapours/mists with a water and all objects contaminated by this materi- rater. absorbent material. do not reuse.

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 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.
		Keep away nom compustible material.
Advice on safe handling	:	Open drum carefully as content may be under pressure. Protect from contamination. Do not breathe vapours/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 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.

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			plication area. Wash thoroughly For personal prote Persons susceptil allergies, chronic	and drinking should be prohibited in the ap- after handling. ection see section 8. ble to skin sensitisation problems or asthma, or recurrent respiratory disease should not ny process in which this mixture is being
Hyg	jiene measures	:	Keep away from f When using do no When using do no	ot eat or drink.
Cor	nditions for safe storage	:	Store in cool place Keep in a well-ver Contamination ma closed containers Observe label pre Store in accordan Avoid impurities (Electrical installat the technological	ightly closed in a cool, well-ventilated place. e. tilated place. ay result in dangerous pressure increases - may rupture. cautions. ce 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
Mat	erials to avoid	:		combustible materials. strong acids, bases, heavy metal salts and bstances.
	commended storage tem- ature	:	< 30 °C	
	ther information on stor- stability	:	Stable under reco	mmended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Minimize workplace exposure concentrations.



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	onal protective equip iratory protection		In the case of du	ist or aerosol formation use respirator with an
Resp	natory protection		approved filter.	
Fil	lter type	:	ABEK-filter	
Hand	protection			
	aterial		butyl-rubber	
	reak through time love thickness		<= 480 min 0.47 mm	
G			0.47 11111	
Ma	aterial	:	Nitrile rubber	
	eak through time		<= 480 min	
G	love thickness	:	0.40 mm	
Re	emarks		standard values! material has to b tive glove. Choose depending on th ous substance a plications, we re cals of the aforer	break through time/strength of material are The exact break through time/strength of be obtained from the producer of the protec- se gloves to protect hands against chemicals e concentration and quantity of the hazard- ind specific to place of work. For special ap- commend clarifying the resistance to chemi- mentioned protective gloves with the glove l/ash hands before breaks and at the end of
Eye p	protection		to the workstatio Please follow all selecting protect Always wear eye eye contact with Tightly fitting saf Please wear suit	applicable local/national requirements when ive measures for a specific workplace. e protection when the potential for inadvertent the product cannot be excluded.
Skin :	and body protection		resistance data a potential. Additional body task being perfor posable suits) to Wear as appropr	te protective clothing based on chemical and an assessment of the local exposure garments should be used based upon the med (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. iate: antistatic protective clothing.
Prote	ctive measures			ective equipment must be selected according tion and amount of the dangerous substance prkplace.



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SEC	SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES				
	Appearance	:	liquid		
	Colour	:	colourless		
	Odour	:	very faint, ester-like		
	Odour Threshold	:	No data available		
	рН	:	substance/mixture is non-soluble (in water)		
	Melting point/freezing point	:	< -25 °C (1,013 hPa)		
	Initial boiling point and boiling range	:	Decomposition: Decomposes below the boiling point.		
	Flash point	:	94 °C		
			Method: ISO 3679		
	Evaporation rate	:	No data available		
	Flammability (liquids)	:	Organic peroxide		
	Self-ignition	:	The substance or mixture is not classified as pyrophoric.		
	Upper explosion limit / Upper flammability limit	:	not determined		
	Lower explosion limit / Lower flammability limit	:	not determined		
	Vapour pressure	:	0.03 hPa (30 °C)		
	Relative vapour density	:	not determined		
	Relative density	:	not determined		
	Density	:	0.89 g/cm3 (20 °C)		
	Solubility(ies) Water solubility	:	0.0142 g/l insoluble (20 °C)		
	Partition coefficient: n- octanol/water	:	log Pow: 5.16		

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A	Auto-igr	ition temperature	:	not determined	
		elerating decomposi- perature (SADT)	:	temperature at w	H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
V	/iscosit Visc	y osity, dynamic	:	5 mPa.s (20 °C)	
	Visc	osity, kinematic	:	not determined	
E	Explosiv	<i>e</i> properties	:	Not explosive In air mixture.	use, may form flammable/explosive vapour-
C	Dxidizin	g properties	:	The substance of Organic peroxide	mixture is not classified as oxidizing.
S	Self-hea	ting substances	:	The substance of	r mixture is not classified as self heating.
R	Refractiv	ve index	:	1.431 (20 °C)	

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	:	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

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Components:

tert-butyl 3,5,5-trimethylperoxyhexanoate:

Acute oral toxicity	:	LD50 (Rat): 12,905 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): > 0.8 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	:	LD0 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402

Skin corrosion/irritation

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

Product:

Remarks : May cause skin irritation in susceptible persons.

Components:

tert-butyl 3,5,5-trimethylperoxyhexanoate:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

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

Product:

Remarks	:	Vapours may cause irritation to the eyes, respiratory system
		and the skin.

Components:

tert-butyl 3,5,5-trimethylperoxyhexanoate:

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

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Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Remarks : Causes sensitisation.

Components:

tert-butyl 3,5,5-trimethylperoxyhexanoate:

Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	The product is a skin sensitiser, sub-category 1B.

Chronic toxicity

Germ cell mutagenicity

Not classified due to lack of data.

Components:

tert-butyl 3,5,5-trimethylperoxyhexanoate:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Metabolic activation: Metabolic activation Method: OECD Test Guideline 471 Result: positive
	Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: positive
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Species: Rat Application Route: Oral Method: OECD Test Guideline 474 Result: negative

Carcinogenicity

Not classified due to lack of data.

Components:

tert-butyl 3,5,5-trimethylperoxyhexanoate:

Remarks : This information is not available.



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Reproductive toxicity

Not classified due to lack of data.

Components:

tert-butyl 3,5,5-trimethylperoxyhexanoate:

Effects on fertility :	Test Type: Reproduction/Developmental toxicity screening test Species: Rat, male and female Application Route: Oral General Toxicity - Parent: NOAEL: 160 mg/kg bw/day General Toxicity F1: NOAEL: 160 mg/kg bw/day Method: OECD Test Guideline 421 General Toxicity - Parent: NOAEL: 50 mg/kg bw/day Method: OECD Test Guideline 443
Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: 150 mg/kg body weight Method: OECD Test Guideline 414 Result: negative

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Components:

tert-butyl 3,5,5-trimethylperoxyhexanoate:

Species NOAEL Application Route Exposure time Method	 Rat, male and female 160 mg/kg oral (gavage) 90 d OECD Test Guideline 408
Species NOAEL Application Route Exposure time Method	 Rat, male and female 50 mg/kg oral (gavage) 28 d OECD Test Guideline 407

Aspiration toxicity

Not classified due to lack of data.

Further information

Product:

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Rema	rks	:	No data available	
CTION	12. ECOLOGICAL INFO	ORN	IATION	
Ecoto	xicity			
<u>Comp</u>	oonents:			
tert-b	utyl 3,5,5-trimethylper	oxy	hexanoate:	
Toxici	ty to fish	:	LC50 (Oncorhyncl Exposure time: 96 Method: OECD Te	
			NOEC (Oncorhynd Exposure time: 96 Method: OECD Te	
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxici plants	ty to algae/aquatic	:	NOEC (Pseudokir Exposure time: 72 Method: OECD Te	
I			EC50 (Pseudokiro Exposure time: 72 Method: OECD Te	
M-Fac icity)	ctor (Acute aquatic tox-	:	1	
	c invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Toxici	ty to microorganisms	:	EC50 (Bacteria): 3 Exposure time: 3 Method: OECD Te	h
Persis	stence and degradabil	ity		
<u>Comp</u>	oonents:			
tert-b	utyl 3,5,5-trimethylper	oxv	hexanoate:	
_	gradability	:	aerobic Result: Readily bio Biodegradation: 7 Exposure time: 28	72 %

Method: OECD Test Guideline 301D

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Bioa	ccumulative potentia	I		
<u>Com</u>	ponents:			
tert-b	outyl 3,5,5-trimethylpe	eroxy	hexanoate:	
Bioad	ccumulation	:	Bioconcentratio Remarks: Calcu	n factor (BCF): 375 Ilation
	tion coefficient: n- nol/water	:	log Pow: 5.16	
	i lity in soil ata available			
Othe	r adverse effects			
Prod Addit matic	ional ecological infor-	:	unprofessional Very toxic to aq	al hazard cannot be excluded in the event of handling or disposal. uatic life. tic life with long lasting effects.

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 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	
UN number	: UN 3105
Proper shipping name	: ORGANIC PEROXIDE TYPE D, LIQUID (tert-BUTYL PEROXY-3,5,5-TRIMETHYLHEXANOATE)
Class	: 5.2
Packing group	: Not assigned by regulation

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E IA	ATA-DO		: :	5.2 yes	
•	JN/ID N Proper :	lo. shipping name	:	UN 3105 Organic peroxide (tert-Butyl peroxy-	type D, liquid -3,5,5-trimethylhexanoate)
P La P ai	ircraft)	instruction (cargo instruction (passen-	: : : :	5.2 Not assigned by re	
U P C La E	Class Packing abels EmS Co	ber shipping name group			XIDE TYPE D, LIQUID DXY-3,5,5-TRIMETHYLHEXANOATE) egulation

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

Not applicable for product as supplied.

National Regulations

ADG		
UN number	:	UN 3105
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, LIQUID
		(tert-BUTYL PEROXY-3,5,5-TRIMETHYLHEXANOATE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
Hazchem Code	:	2WE
Environmentally hazardous	:	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

Safety, health and environmental regulations/legislation specific for the substance or mix-ture

Gefahrgruppe nach TRGS 741: lb (German regulatory requirements)

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		rd for the Uniform Iling of Medicines and s	:	publication to che	ck for s	nber allocated (Please use the original specific uses, specific conditions or ht apply for this chemical)
	Prohibit	tion/Licensing Requirer	nen	ts	:	There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.
	The co	mponents of this pro	duc	t are reported in t	he foll	lowing inventories:
	TCSI (1	•	:	-		ompliance with the inventory
	TSCA ((US)	:	All substances list	ted as	active on the TSCA inventory
	AIIC (A	U)	:	On the inventory,	or in c	ompliance with the inventory
	DSL (C	A)	:	All components of	this p	roduct are on the Canadian DSL
	ENCS	(JP)	:	On the inventory,	or in c	ompliance with the inventory
	ISHL (J	IP)	:	On the inventory,	or in c	ompliance with the inventory
	KECI (ł	<r)< td=""><td>:</td><td>On the inventory,</td><td>or in c</td><td>ompliance with the inventory</td></r)<>	:	On the inventory,	or in c	ompliance with the inventory
	PICCS	(PH)	:	On the inventory,	or in c	ompliance with the inventory
	IECSC	(CN)	:	On the inventory,	or in c	ompliance with the inventory
	TECI (1	ſH)	:	On the inventory,	or in c	ompliance with the inventory

SECTION 16. OTHER INFORMATION

Further information		
Revision Date	:	16.04.2024
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-



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			tainer.	
со	ources of key data used to impile the Safety Data neet	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
Da	ate 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; 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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