Revision Date:



Date of last issue: 2021/03/26

# TMCH-90-AL

Version

4.1	2024/09/12		0000000196	Date of first issue: 2017/07/18	
1. PROD	UCT AND COMPANY IDE	ENT	IFICATION		
Proc	duct name	:	TMCH-90-AL		
Othe	er means of identification	:	None		
	ommended use of the ch ommended use		ical and restricti polymerisation i		
Man	ufacturer or supplier's d				
Corr	npany	:	United Initiators	GmbH	
Add	ress	:	DrGustav-Ado 82049 Pullach	lph-Str. 3	
Eme	ergency telephone number	:	+49 / 89 / 74422	2 – 0 (24 h)	
E-m	ail address	:	contact@united	-in.com	
2 4474	RDS IDENTIFICATION				

SDS Number:

### 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids	:	Category 4
Organic peroxides	:	Туре С
Aspiration hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 4
GHS label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H227 Combustible liquid. H242 Heating may cause a fire. H304 May be fatal if swallowed and enters airways. H413 May cause long lasting harmful effects to aquatic life.

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Preca	autionary statements	No smoking. P220 Keep/ S P234 Keep on P273 Avoid re	vay from heat/ sparks/ open flames/ hot surfaces tore away from clothing/ combustible materials. Ily in original container. Ilease to the environment. otective gloves/ eye protection/ face protection.
		CENTER/ doc P331 Do NOT P370 + P378	IF SWALLOWED: Immediately call a POISON tor. induce vomiting. In case of fire: Use water spray, alcohol-resistan mical or carbon dioxide to extinguish.
		P411 + P235 86 °F. Keep co	t from sunlight. Store at temperatures not exceeding < 30 °C/
		<b>Disposal:</b> P501 Dispose disposal plant.	of contents/ container to an approved waste

# Other hazards which do not result in classification

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
Chemical nature	:	Organic Peroxide Liquid mixture

#### Components

Hazardous ingredients	CAS-No.	Concentration (% w/w)
di-tert-butyl 3,3,5-trimethylcyclohexylidene di-	6731-36-8	>= 85 -< 90
peroxide		
Hydrocarbons, C4, 1,3-butadiene-free, pol-	93685-81-5	>= 10 -< 15
ymerised., triisobutylene fraction, hydrogenated		

#### 4. FIRST AID MEASURES

General advice	<ul> <li>Take off contaminated clothing and shoes immediately.</li> <li>Call a physician immediately.</li> <li>Never give anything by mouth to an unconscious person.</li> <li>If unconscious, place in recovery position and seek medical advice.</li> </ul>
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		Show this safe Do not leave t Symptoms of No artificial res	angerous area. ety data sheet to the doctor in attendance. he victim unattended. poisoning may appear several hours later. spiration, mouth-to-mouth or mouth to nose. ments/apparatus.
First	aid measures for dif	ferent exposure rout	es
lf inha	iled	served. If breathed in, If not breathin Call a physicia	ygen if breathing is difficult or cyanosis is ob- move person into fresh air. g, give artificial respiration. In or poison control centre immediately. G, place in recovery position and seek medicatory tract clear.
In cas	e of skin contact	Wash contami If on skin, rins	ersist, call a physician. nated clothing before re-use. e well with water. emove clothes.
In cas	e of eye contact	of water and s Remove conta Protect unharr Keep eye wide	
lf swa	llowed	Contact a pois Keep respirato Do NOT induc	
	important symptoms ffects, both acute and ed		swallowed and enters airways.
Prote	ction of first-aiders		onders should pay attention to self-protection commended protective clothing
Notes	to physician	: Treat sympton	natically and supportively.

Suitable extinguishing media	:	Water spray jet Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
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Uns mec	uitable extinguishing lia	:	High volume wate	r jet
Spe figh	cific hazards during fire-	:	Possible emission lead to a dangero Avoid confinemen Contact with incon tures exceeding S composition react may auto-ignite. The product burns Flash back possib Do not allow run-o courses. Vapours may form The product will fl water.	npatible materials or exposure to tempera- ADT may result in a self-accelerating de- ion with release of flammable vapors which
Spe	cific extinguishing meth-	:	cumstances and t Use a water spray Collect contamina must not be disch Fire residues and be disposed of in Do not use a solic fire. Remove undamag so.	measures that are appropriate to local cir- he surrounding environment. / to cool fully closed containers. ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.
	cial protective equipment irefighters	:	essary.	ed breathing apparatus for firefighting if nec- ective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	ment recommendations. Beware of vapours accumulating to form explosive concentra- tions. Vapours can accumulate in low areas. Use personal protective equipment.
	Ensure adequate ventilation.
	Remove all sources of ignition.
	Never return spills in original containers for re-use.

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Enviro	onmental precautions	cons : Prev Prev If the	siderations". vent product f vent further le	naterial as described in the section "Disposal rom entering drains. akage or spillage if safe to do so. taminates rivers and lakes or drains inform ities.
	Methods and materials for : containment and cleaning up		at or below S ar spills imme press (knock y jet. lean the floor se plenty of v k up with iner ate waste and -sparking too al or national al of this mate loyed in the c	diately. down) gases/vapours/mists with a water and all objects contaminated by this materi-

### 7. HANDLING AND STORAGE

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 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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Vers 4.1	sion	Revision Date: 2024/09/12		OS Number: 0000000196	Date of last issue: 2021/03/26 Date of first issue: 2017/07/18
				plication area. Wash thoroughly	and drinking should be prohibited in the ap- after handling. ection see section 8.
	Storag	e			
	Conditi	ions for safe storage	:	Store in cool plac 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. ntilated 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
	Materia	als to avoid	:		combustible materials. strong acids, bases, heavy metal salts and bstances.
	Recom peratur	nmended storage tem- re	:	< 30 °C	
	Furthe	r information on stor- ability	:	Stable under reco	mmended storage conditions.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Components with workplace control parameters</b> Contains no substances with occupational exposure limit values.					
Biological occupational exposure limits Contains no substances with biological exposure indices.					
Engineering measures	Engineering measures : Minimize workplace exposure concentrations.				
<b>Personal protective equipn</b> Respiratory protection	Personal protective equipment         Respiratory protection       :         In the case of dust or aerosol formation use respirator with an approved filter.				
Filter type	:	ABEK-filter			
Hand protection Material Break through time Glove thickness		butyl-rubber < 60 min 0.70 mm			

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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 protec- tive glove. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazard- ous substance and specific to place of work. For special ap- plications, we recommend clarifying the resistance to chemi- cals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.		
Еуе р	protection	:	to the workstati Please follow a selecting protect Always wear ey eye contact with Tightly fitting sa Please wear su	Il applicable local/national requirements when ctive measures for a specific workplace. re protection when the potential for inadvertent in the product cannot be excluded.	
Skin	and body protection	:	resistance data potential. Additional body task being perfo posable suits) t Wear as approp	ate protective clothing based on chemical and an assessment of the local exposure garments should be used based upon the prmed (e.g., sleevelets, apron, gauntlets, dis- o avoid exposed skin surfaces. priate: t antistatic protective clothing.	
Prote	ective measures	:		tective equipment must be selected according ation and amount of the dangerous substance vorkplace.	
Hygie	ene measures	:	Keep away fron When using do When using do	rith skin, eyes and clothing. n food and drink. not eat or drink. not smoke. fore breaks and immediately after handling	

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid

: colourless



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Odou	ır	:	musty	
Odou	ır Threshold	:	not determined	
pН		:	substance/mixtu	re is non-soluble (in water)
Melti	ng point/ range	:	< -25 °C	
Boilir	ng point/boiling range	:	Decomposition:	Decomposes below the boiling point.
Flash	n point	:	63 °C	
			Method: ISO 367	79, open cup
Evap	oration rate	:	No data availabl	e
Flam	mability (solid, gas)	:	Not applicable	
Flam	mability (liquids)	:	Organic peroxide	9
Self-i	gnition	:	The substance of	r mixture is not classified as pyrophoric.
	er explosion limit / Upper nability limit	:	Upper explosion 4 %(V) (for a componen	
	er explosion limit / Lower nability limit	:	Lower explosion 0.5 %(V) (for a componen	
Vapo	our pressure	:	< 0.09 hPa (20 °	C)
Relat	ive vapour density	:	not determined	
Relat	ive density	:	not determined	
Dens	ity	:	0.895 g/cm3 (20	°C)
	bility(ies) /ater solubility	:	insoluble	
	ion coefficient: n- nol/water	:	Not applicable	
Auto-	ignition temperature	:	not determined	
	Accelerating decomposi- emperature (SADT)	:	60 °C Method: UN-Tes	t H.4

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		t	temperature at w	erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
Visco Vi	sity scosity, dynamic	:	18 mPa.s ( 20 °C	2)
Vi	scosity, kinematic	: 1	not determined	
Explo	osive properties		Not explosive In air mixture.	use, may form flammable/explosive vapour-
Oxidi	zing properties		The substance o Organic peroxide	r mixture is not classified as oxidizing.
Self-ł	neating substances	: '	The substance o	r mixture is not classified as self heating.
Refra	ictive index	:	1.438 (20 °C)	

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		

### **11. TOXICOLOGICAL INFORMATION**

Symptoms of Overexposure : None known.

### Acute toxicity

Not classified due to lack of data.



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Comp	oonents:						
di-ter	t-butyl 3,3,5-trimeth	ylcyclohexylidene d	iperoxide:				
Acute	oral toxicity	Method: OEC	Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral tox-				
Acute	inhalation toxicity	Method: OEC					
Acute	dermal toxicity		2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal				
Hydro	ocarbons, C4, 1,3-bi	Itadiene-free, polym	erised., triisobutylene fraction, hydrogenate				
Acute	oral toxicity	Assessment: icity	5,000 mg/kg D Test Guideline 401 The substance or mixture has no acute oral toy sed on data from similar materials				
Acute	inhalation toxicity	Exposure time Test atmosph	ale and female): > 5,000 mg/l e: 4 h ere: dust/mist D Test Guideline 403				
		Remarks: No	data available				
Acute	dermal toxicity	Method: OEC	(Rabbit): 3,16 ml/kg D Test Guideline 402 sed on data from similar materials				
	corrosion/irritation						
	assified due to lack c	t data.					
	oonents:						
di-ter Specie Metho Resul	es od	ylcyclohexylidene d : Rabbit : OECD Test G : No skin irritati	Guideline 404				
Hydro	ocarbons, C4, 1,3-bi	Itadiene-free, polym	erised., triisobutylene fraction, hydrogenate				
Resul			posure may cause skin dryness or cracking.				

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#### Serious eye damage/eye irritation

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

#### **Components:**

#### di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:

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

### Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:

Result

: No eye irritation

#### Respiratory or skin sensitisation

### Skin sensitisation

Not classified due to lack of data.

#### **Respiratory sensitisation**

Not classified due to lack of data.

### Components:

#### di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:

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

#### Chronic toxicity

#### Germ cell mutagenicity

Not classified due to lack of data.

#### **Components:**

#### di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:

Genotoxicity in vitro :	Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
Genotoxicity in vivo :	Remarks: No data available

### Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:

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	rm cell mutagenicity - sessment	:	No known effect.	
Ca	rcinogenicity			
Not	t classified due to lack of o	data.		
<u>Co</u>	mponents:			
di-t	ert-butyl 3,3,5-trimethyl	cycl	ohexylidene diper	oxide:
App	ecies olication Route sult	:	Mouse Oral negative	
Hy	drocarbons, C4, 1,3-but	adie	ne-free, polymeris	ed., triisobutylene fraction, hydrogenated:
Ca me	rcinogenicity - Assess- nt	:	No known effect.	
	productive toxicity t classified due to lack of d	data.		
<u>Co</u>	mponents:			
di-t	ert-butyl 3,3,5-trimethyl	cycl	ohexylidene diper	oxide:
Effe	ects on fertility	:	Remarks: No data	a available
Effe me	ects on foetal develop- nt	:	Application Route	Maternal: NOAEL: 1,000 mg/kg body weight
Ну	drocarbons, C4, 1,3-but	adie	ne-free, polymeris	ed., triisobutylene fraction, hydrogenated:
	productive toxicity - As- sment	:	No known effect.	
	<b>OT - single exposure</b> t classified due to lack of (	data.		
ST	OT - repeated exposure			

Not classified due to lack of data.

### Aspiration toxicity

May be fatal if swallowed and enters airways.

### Components:

Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated: May be fatal if swallowed and enters airways.



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Furth	er information		
<u>Prod</u> Rema		: Solvents may	degrease the skin.
Com	ponents:		
<b>Hydr</b> o Rema			erised., triisobutylene fraction, hydrogenated: eadache and dizziness.
12. ECOL	OGICAL INFORMATIO	N	
Ecoto	oxicity		
	ponents:		
di-ter	t-butyl 3,3,5-trimethylc	yclohexylidene d	iperoxide:
Toxic	ity to fish	Exposure time Method: OEC	rdanio rerio (zebrafish)): > 0.043 mg/l e: 96 h D Test Guideline 203 toxicity at the limit of solubility
	ity to daphnia and other tic invertebrates	Exposure time Method: OEC	ia magna (Water flea)): > 1 mg/l e: 48 h D Test Guideline 202 toxicity at the limit of solubility
Toxic plants	ity to algae/aquatic	mg/l Exposure time Method: OEC	okirchneriella subcapitata (green algae)): 0.11 e: 72 h D Test Guideline 201 toxicity at the limit of solubility
	ity to daphnia and other tic invertebrates (Chron- icity)	Exposure time Method: OEC	nia magna (Water flea)): 0.0128mg/l e: 21 d D Test Guideline 211 toxicity at the limit of solubility
Toxic	ity to microorganisms	Exposure time	ia): > 1,000 mg/l e: 3 h D Test Guideline 209
Ecoto	oxicology Assessment		
Chror	nic aquatic toxicity	: May cause lo	ng lasting harmful effects to aquatic life.
Hydro	ocarbons, C4, 1,3-buta	diene-free, polym	erised., triisobutylene fraction, hydrogenated:
Toxic	ity to daphnia and other tic invertebrates	: EC50 (Daphn Exposure time	ia (water flea)): > 0.04 mg/l



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			similar substance	es.
Toxic plants	ity to algae/aquatic	:	IC50 (algae): > 0 Exposure time: 7	0.04 mg/l 2 h ation given is based on data obtained from
Ecoto	oxicology Assessmen	t		
Acute	aquatic toxicity	:	This product has	no known ecotoxicological effects.
Chror	nic aquatic toxicity	:	May cause long	asting harmful effects to aquatic life.
Persi	stence and degradabi	ility		
Com	oonents:			
di-ter	t-butyl 3,3,5-trimethyl	cycl	ohexylidene dipe	roxide:
	gradability	:	Result: Biodegra	
-	ocarbons, C4, 1,3-but gradability	adie :		sed., triisobutylene fraction, hydrogenated ly biodegradable.
Bioad	cumulative potential			
<u>Com</u>	oonents:			
di-ter	t-butyl 3,3,5-trimethyl	cycl	ohexylidene dipe	roxide:
	cumulation	:	• •	factor (BCF): 443
	ion coefficient: n- ol/water	:	log Pow: 6.53	
Hydro	ocarbons, C4, 1,3-but	adie	ne-free, polymeri	sed., triisobutylene fraction, hydrogenated
	ion coefficient: n- ol/water	:		6.16 (20 °C) alue is calculated
	lity in soil			
	ata available			
Othe	r adverse effects			
<u>Produ</u> Additi	und.			

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### **13. DISPOSAL CONSIDERATIONS**

<b>Disposal methods</b> 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. Do not contaminate ponds, waterways or ditches with chemi- cal 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>

### **14. TRANSPORT INFORMATION**

### International Regulations

<b>UNRTDG</b> UN number Proper shipping name	:	UN 3103 ORGANIC PEROXIDE TYPE C, LIQUID (1,1-DI-(tert-BUTYLPEROXY)-3,3,5- TRIMETHYLCYCLOHEXANE)
Class Packing group Labels Environmentally hazardous	:	5.2 Not assigned by regulation 5.2 no
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels		UN 3103 Organic peroxide type C, liquid (1,1-Di-(tert-butylperoxy)-3,3,5-trimethylcyclohexane) 5.2 Not assigned by regulation Organic Peroxides, Keep Away From Heat
Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	:	570 570
<b>IMDG-Code</b> UN number Proper shipping name	:	UN 3103 ORGANIC PEROXIDE TYPE C, LIQUID (1,1-DI-(tert-BUTYLPEROXY)-3,3,5-
Class Packing group Labels	:	TRIMETHYLCYCLOHEXANE) 5.2 Not assigned by regulation 5.2

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EmS Code	:	F-J, S-R
Marine pollutant	:	no

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

Not applicable for product as supplied.

#### 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.

### **15. REGULATORY INFORMATION**

### National regulatory information

National regulatory mormation		
Gefahrgruppe nach TRGS 741: lb, S+ (German regulat Produkt unterliegt dem Sprengstoffgesetz (SprengG; St quirements)		
Regulations on Occupational Safety and Health Facili- ties	:	applicable
Standards for the Storage, Cleanup, Handling and Disposal of Industrial Waste	:	applicable
Regulations on Labelling and Hazard Communication of Hazardous Chemicals	:	applicable
Rules on Road Traffic Safety	:	applicable
Standards of Permissible Exposure Limits in Work- place	:	Contains no substances with occupational exposure limit values.
Rules on the Prevention of Poisoning from Organic Solvents.	:	Not applicable
Standard for the Control of Designated Hazardous and Dangerous Chemicals	:	Not applicable
Establishment Standards and Safety Control Regula- tions for Manufacturing, Storing, Processing Public Hazardous Substances and Flammable Pressurized Gases Places Toxic and Concerned Chemical Substances Control	:	Quantity subject to control
Act Toxic chemical substances Concerned chemical substances Regulations for Governing Designating and Handling of Priority Management Chemicals	:	Not applicable Not applicable applicable

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

TCSI (TW)	:	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
ISHL (JP)	:	On the inventory, or in compliance with the inventory

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PICCS (PH):On the inventory, or in compliance with the inventoryIECSC (CN):On the inventory, or in compliance with the inventory	Version Revision Date: 4.1 2024/09/12	SDS Number:Date of last issue: 2021/03/26600000000196Date of first issue: 2017/07/18	
TECI (TH) : On the inventory, or in compliance with the inventory	IECSC (CN)	: On the inventory, or in compliance with the inventory	

#### **16. OTHER INFORMATION**

#### Further information

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 Agen- cy, http://echa.europa.eu/
Revision Date	:	2024/09/12
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.
Date format	:	yyyy/mm/dd

### 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-



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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

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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