

This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	COLGATE TOTAL U-FLOSSER
Product code	-	B04201870000 200000072582
Manufacturer or supplier's de	etai	ils
Address	:	Colgate-Palmolive Pty Ltd., 420 George St, Sydney, New South Wales, Australia 2000.
Telephone	:	CONSUMER AFFAIRS: - AU 1800 802 307 (Mon – Fri 7 - 5)
Emergency telephone number	:	CHEMTREC Australia +(61)-290372994 Global-CHEMTREC- +1 703-741-5970

Recommended use of the chemical and restrictions on use

Recommended use : Dental Floss

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 2
Skin sensitisation	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H315 + H320 Causes skin and eye irritation. H317 May cause an allergic skin reaction.
Precautionary statements	:	Prevention: P261 Avoid breathing dust. P264 Wash skin thoroughly after handling.



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		the workplace	inated work clothing should not be allowed out of rotective gloves.
		P305 + P351 for several mi easy to do. Co P333 + P313 vice/ attention P337 + P313 tention.	IF ON SKIN: Wash with plenty of water. + P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing. If skin irritation or rash occurs: Get medical ad- If eye irritation persists: Get medical advice/ at- Take off contaminated clothing and wash it before
		Disposal: P501 Dispose disposal plant	of contents/ container to an approved waste

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
Menthol	89-78-1	>= 10 -< 20
D-Carvone	2244-16-8	>= 3 -< 5
MICROCRYSTALLINE WAX	63231-60-7	>= 3 -< 5
p-menthan-3-one	10458-14-7	>= 1 -< 3
TRANS-ANETHOLE	4180-23-8	>= 1 -< 3
D-LIMONENE	5989-27-5	>= 1 -< 3
Limonene	138-86-3	>= 0.1 -< 1
EUCALYPTOL	470-82-6	>= 0.1 -< 1

SECTION 4. FIRST AID MEASURES

General advice	:	If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone Australia 131126; New Zealand 0800 764 766), and follow the advice given.
lf inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	If on skin, rinse well with water.



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In ca	se of eye contact	:	Remove contact Protect unharmed Keep eye wide op	d eye.
lf sw	allowed	:		tract clear. ing by mouth to an unconscious person. ist, call a physician.
	important symptoms effects, both acute and /ed	:	Causes skin and May cause an all	eye irritation. ergic skin reaction.
Note	s to physician	:	Treat symptomat	cally.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire- fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion prod- ucts	:	No hazardous combustion products are known
Specific extinguishing meth- ods	:	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.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Use personal protective equipment.
tive equipment and emer-	Avoid dust formation.
gency procedures	Avoid breathing dust.



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E	Environmental precautions	:	Prevent further le	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	:	Keep in suitable,	closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling	:	 Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Hygiene measures	:	Wash hands before breaks and at the end of workday.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
Further information on stor- age stability	:	No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment



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Respiratory protection		:	No personal respiratory protective equipment normally re- quired.	
Hand protection				
Remarks		:		a specific workplace should be discussed so of the protective gloves.
Eye protection		:	Eye wash bottle with pure water Tightly fitting safety goggles	
S	kin and body protection	:		protective suit tection according to the amount and con- dangerous substance at the work place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	solid
Colour	:	white
Odour	:	No data available
рН	:	No data available
Melting point/ range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Flash point Upper explosion limit / Upper flammability limit	:	
Upper explosion limit / Upper		No data available
Upper explosion limit / Upper flammability limit Lower explosion limit / Lower		No data available
Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit		No data available No data available
Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit Vapour pressure		No data available No data available No data available



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	Solubility in other solvents	:	No data available	9
•	Partition coefficient: n- octanol/water	:	No data available	2
ŀ	Auto-ignition temperature	:	No data available	9
Γ	Decomposition temperature	:	No data available	9
١	/iscosity Viscosity, kinematic	:	No data available	9
-	Particle characteristics Particle size	:	No data available	9

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reac- tions	:	No decomposition if stored and applied as directed.
Conditions to avoid	:	No data available
Incompatible materials	:	Not applicable
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Not classified based on available information.

Product:

Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Components:

Menthol:		
Acute oral toxicity	:	LD50 (Rat): 2,500 mg/kg
Acute inhalation toxicity	:	Remarks: No data available



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Acute	Acute dermal toxicity		LD50 (Rabbit): Remarks: No c			
D-Ca	rvone:					
Acute	e oral toxicity	:	LD50 (Rat): 2,	500 mg/kg		
Acute	e dermal toxicity	:	LD50 (Rat): 3,8	800 mg/kg		
MICR		X:				
Acute	e oral toxicity	:		le and female): > 5,000 mg/kg) Test Guideline 401		
Acute	e dermal toxicity	:		le and female): > 2,000 mg/kg) Test Guideline 402		
p-me	nthan-3-one:					
Acute	e oral toxicity	:	LD50 (Rat): 2,	500 mg/kg		
Acute	e inhalation toxicity	:	Remarks: No data available			
Acute	e dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Method: No information available.			
	NS-ANETHOLE:					
Acute	e oral toxicity	:	LD50 (Rat): 3,0	000 mg/kg		
Acute	e inhalation toxicity	:	Remarks: No c	lata available		
Acute	e dermal toxicity	:	Remarks: No c	lata available		
	IONENE:					
Acute	e oral toxicity	:	LD50 (Rat): > \$	5,000 mg/kg		
Acute	inhalation toxicity	:	Remarks: No c	lata available		
Acute	e dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg			
	nene:					
	e oral toxicity	:	LD50 (Rat): 5,3	300 mg/kg		
Acute	e inhalation toxicity	:	Remarks: No c	lata available		
Acute	e dermal toxicity	:	Remarks: No data available			

EUCALYPTOL:



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A	Acute o	ral toxicity	:	LD50 (Rat): 2,480	mg/kg	
А	Acute ir	nhalation toxicity	:	Remarks: No data	a available	
A	Acute d	ermal toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: No information available.		
-		prrosion/irritation				
<u>c</u>	Compo	nents:				
Ν	lentho	ol:				
R	Result		:	Skin irritation		
D	D-Carv	one:				
R	Result		:	No skin irritation		
N	MICRO	CRYSTALLINE WAX:				
	Species		:	Rabbit		
		re time	:	4 h		
	Assess		:	No skin irritation		
	/lethod		:	OECD Test Guideline 404		
	Result		:	No skin irritation		
(GLP		:	yes		
-		han-3-one:				
	Species	3	:	Rabbit		
R	Result		:	Mild skin irritation		
т		-ANETHOLE:				
R	Result		:	Mild skin irritation		
R	Remark	S	:	May cause skin in	ritation and/or dermatitis.	
D	D-LIMO	NENE:				
	Species	3	:	Rabbit		
R	Result		:	Mild skin irritation		
L	imone	ene:				
R	Result		:	Irritating to skin.		
E	UCAL	YPTOL:				
R	Result		:	No eye irritation		



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Serio	us eye damage/eye	irritation	
	es eye irritation.		
	onents:		
Menth			
Resul	t	: Irritation to ey	es, reversing within 21 days
D-Car	vone:		
Resul	t	: No eye irritati	on
MICR	OCRYSTALLINE W	ΔΧ.	
Speci		: Rabbit	
Resul		: No eye irritati	on
Asses	ssment	: No eye irritati	
Metho	od	: OECD Test G	uideline 405
p-mei	nthan-3-one:		
Speci	es	: Rabbit	
Resul		: No eye irritati	on
TRAN	IS-ANETHOLE:		
Rema	irks	: No data avail	able
Rema	ırks	: Product dust system.	may be irritating to eyes, skin and respiratory
D-LIN	IONENE:		
Speci	es	: Rabbit	
Resul	t	: No eye irritati	on
Limo	nene:		
Rema	irks	: No data avail	able
EUCA	ALYPTOL:		
Resul	t	: Mild eye irrita	tion
Respi	iratory or skin sens	itisation	
Skin s	sensitisation		
	ause an allergic skin	reaction	



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Respi	ratory sensitisation		
Not cla	assified based on av	ailable information.	
Comp	onents:		
Menth	nol:		
	sure routes	: Inhalation : No data availabl	e
Expos Resul	sure routes t	: Dermal : Does not cause	skin sensitisation.
D-Car	vone:		
Expos Specie	sure routes es	: Dermal : Not tested on ar	nimals
MICR	OCRYSTALLINE W	AX:	
Expos Resul	sure routes t	: Inhalation : Does not cause	respiratory sensitisation.
Expos Resul	sure routes t	: Dermal : Does not cause	skin sensitisation.
p-mer	nthan-3-one:		
Expos Rema	sure routes rks	: Inhalation : No data availabl	e
Expos Resul	sure routes t	: Dermal : May cause sens	itisation by skin contact.
TRAN	S-ANETHOLE:		
Expos Rema	sure routes rks	: Inhalation : No data availabl	e
Expos Resul	sure routes t	: Dermal : May cause sens	itisation by skin contact.
Rema	rks	: Causes sensitis	ation.
D-LIM	IONENE:		
Expos	sure routes	: Dermal	
Specie Rema	es	: Mouse : Causes sensitis	ation
Reilla	179	. Causes sensilis	allon.
Limor	nene:		
Rema	rks	: Causes sensitis	ation.

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Expos	ALYPTOL: sure routes	: Inhalation		
Rema Expos Resul	sure routes	: Dermal	No data available Dermal May cause sensitisation by skin contact.	
Chror	nic toxicity			
	cell mutagenicity assified based on av	ailable informatior	l.	
Comp	oonents:			
MICR	OCRYSTALLINE W	AX:		
Genot	toxicity in vitro	Test syste Metabolic	: In vitro mammalian cell gene mutation test em: mouse lymphoma cells activation: with and without metabolic activation DECD Test Guideline 476 agative	
Genot	toxicity in vivo	Species: I	: In vivo micronucleus test Mouse (male and female) n Route: Intraperitoneal injection gative	
D-LIM	ONENE:			
Genot	toxicity in vitro	Test syste Metabolic	: Test Type: gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Result: negative	
Genot	toxicity in vivo	Species: I Applicatio	Test Type: comet assay Species: Rat (male) Application Route: Oral Result: negative	
Carci	nogenicity			
	assified based on av	ailable information	l.	

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.



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STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

MICROCRYSTALLINE WAX:

Species	: Mouse, male
NOAEL	: >= 150 mg/kg
Application Route	: Dermal
Method	: OECD Test Guideline 453

D-LIMONENE:

Species	:	Rat, male
NOAEL	:	825 mg/kg
Application Route	:	Oral
Method	:	OECD Test Guideline 407

Aspiration toxicity

Not classified based on available information.

Components:

D-LIMONENE:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks

This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 2 of the SDS.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Menthol:

Toxicity to fish

: LC50 (Danio rerio (zebra fish)): 22.3 mg/l



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				Exposure time: 96	5 h	
Toxicity to fish (Chronic tox- icity)		:	No data available:			
	D-Carv	one:				
	Toxicity	to fish	:	LC50 (Danio rerio Exposure time: 96	(zebra fish)): 50 mg/l 5 h	
	Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia magna (Water flea)): 249.51 mg/l Exposure time: 48 h		
	MICRO	CRYSTALLINE WAX:				
	Toxicity	to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 1,000 mg/l b h	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 1,000 mg/l h	
	Toxicity plants	to algae/aquatic	:	: ErC50 (Scenedesmus capricornutum (fresh water algae) 1,000 mg/l Exposure time: 72 h		
		invertebrates (Chron-	: No data available:			
	p-ment	han-3-one:				
	Toxicity		:	LC50 (Fish): > 10 Exposure time: 72		
	Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia m Exposure time: 48	agna Straus): 100 mg/l h	
	Toxicity plants	kicity to algae/aquatic : nts		EC50 (Desmodesmus subspicatus (green algae)): > 10 Exposure time: 72 h		
	Toxicity icity)	to fish (Chronic tox-	: No data available:			
		to daphnia and other invertebrates (Chron- ty)				
	TRANS	-ANETHOLE:				
	Toxicity		:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 7 mg/l s h	



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Toxici icity)	ty to fish (Chronic tox-	:	No data available	:	
D-LIM	ONENE:				
Toxici	ty to fish	:	LC50 (Fish): 0.72 mg/l Exposure time: 96 h		
M-Fac icity)	tor (Acute aquatic tox-	:	1		
Toxici icity)	Toxicity to fish (Chronic tox- icity)		NOEC (Fish): < 0.01 mg/l		
	ty to daphnia and other c invertebrates (Chron- city)	:	No data available		
M-Fac toxicity	etor (Chronic aquatic y)	:	1		
Limor	nene:				
	Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia m Exposure time: 48		
Toxici icity)	ty to fish (Chronic tox-	:	EL10 (Fish): 100 Exposure time: 96		
EUCA	LYPTOL:				
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna Straus): > 100 mg/l 3 h	
Toxici icity)	Toxicity to fish (Chronic tox- icity)		NOEC (Fish): 32	mg/l	
Persis	stence and degradabili	ty			
Comp	onents:				
Menth Biode	nol: gradability	:	Result: Readily bi	odegradable.	
MICD					
	OCRYSTALLINE WAX: gradability	:	Result: Inherently	biodegradable.	
p-mer	nthan-3-one:				



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	Biode	gradability	:	Result: Readily bi	odegradable.
		IS-ANETHOLE: gradability	:	Result: Readily bi	odegradable.
		IONENE: gradability	:	Result: Readily bi	odegradable.
		ALYPTOL: gradability	:	Result: Readily bi	odegradable.
	Bioac	cumulative potential			
	<u>Comp</u>	oonents:			
	Ment			Disconcentration	
		cumulation	:		actor (BCF): 4.6 - 11
		on coefficient: n- ol/water	:	log Pow: 3.38	
	MICR	OCRYSTALLINE WAX:			
	Bioac	cumulation	:	Remarks: Bioaccu	mulation is unlikely.
		on coefficient: n- ol/water	:	: log Pow: 5.3 - 6.7	
	p-me	nthan-3-one:			
	Bioac	cumulation	:	Remarks: No data	available
		on coefficient: n- ol/water	:	log Pow: 2.87	
	TRAN	IS-ANETHOLE:			
	Bioac	cumulation	:	Remarks: No data	available
		on coefficient: n- ol/water	:	: log Pow: 3.39	
	D-LIN	IONENE:			
	Bioac	cumulation	:	Bioconcentration f	actor (BCF): 864.8
		on coefficient: n- ol/water	:	log Pow: 4.38	



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EUCALYPTOL:

Bioaccumulation	:	Bioconcentration factor (BCF): 83.0 - 125
Partition coefficient: n- octanol/water	:	log Pow: 3.13

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from residues	The product should not be allowed to enter courses or the soil. Do not contaminate ponds, waterways or di cal or used container. Send to a licensed waste management com	tches with chemi-
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.	

SECTION 14. TRANSPORT INFORMATION

ADG (Australian Dangerous Goods) 7.8	:	Not regulated.
NZS (New Zealand's Standards) 5433	:	Not regulated.
ΙΑΤΑ	:	
		Not regulated.
IMDG	:	Not regulated.



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		IMDG EmS	Number :Not applicable.	
ADR		:		
		Not regulate	ed.	

SECTION 15. REGULATORY INFORMATION

Safety, health and e ture	nvironmental regulations/l	egislation specific for the substance or mix-
Therapeutic Goods (I Standard) Instrument	Poisons : No poison sche	edule number allocated
Prohibition/Licensing	Requirements	: 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 components of	this product are reported i	n the following inventories:
AIIC	: On the invento	ry, or in compliance with the inventory
NZIoC	: On the invento	ry, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

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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



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- 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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