

Version 9.1	Revision Date: 04/05/2019		DS Number: 327136-00037	Date of last issue: 08/09/2018 Date of first issue: 02/27/2017			
SECTIC	SECTION 1. IDENTIFICATION						
Pro	oduct name	:	Vertrel™ SMT sp	pecialty fluid			
SD	S-Identcode	:	13000000633				
Ма	nufacturer or supplier's	det	ails				
Company name of supplier		:	The Chemours Company FC, LLC				
Address		:	1007 Market Street Wilmington, DE 19899 United States of America (USA)				
Tel	Telephone		1-844-773-CHEM (outside the U.S. 1-302-773-1000)				
Emergency telephone		:	Medical emergency: 1-866-595-1473 (outside the U.S. 1-302 773-2000) ; Transport emergency: +1-800-424-9300 (outsi the U.S. +1-703-527-3887)				
Recommended use of the chemical and restr				ons on use			
Re	commended use	:	Cleaning agent				
Restrictions on use			For professional	and industrial installation and use only.			

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200					
Eye irritation	:	Category 2B			
Specific target organ systemic toxicity - single exposure	:	Category 2 (Eye, Central nervous system)			
Specific target organ systemic toxicity - single exposure	:	Category 3			
GHS label elements					
Hazard pictograms	:				
Signal Word	:	Warning			
Hazard Statements	:	H320 Causes eye irritation. H336 May cause drowsiness or dizziness. H371 May cause damage to organs (Eye, Central nervous sys- tem).			



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Precautionary Statements		P264 Wash skii P270 Do not ea	 Prevention: P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. 		
		and keep comfo CENTER/docto P305 + P351 + for several minu to do. Continue P308 + P311 IF CENTER/docto	exposed or concerned: Call a POISON		
		Storage: P405 Store locked up.			
		Disposal: P501 Dispose o posal plant.	of contents/ container to an approved waste dis-		

Other hazards

In use, may form flammable/explosive vapor-air mixture.

Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Misuse or intentional inhalation abuse may cause death without warning symptoms, due to cardiac effects.

Rapid evaporation of the product may cause frostbite.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

CAS-No.	Concentration (% w/w)
156-60-5	>= 30 - < 50
67-56-1	>= 3 - < 5
	156-60-5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice		In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.



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In cas	se of skin contact	Remove con Get medical Wash clothin	ntact, immediately flush skin with plenty of water. taminated clothing and shoes. attention. Ing before reuse. clean shoes before reuse.
In cas	se of eye contact	for at least 1	, remove contact lens, if worn.
lf swa	llowed	Get medical Rinse mouth	, DO NOT induce vomiting. attention. thoroughly with water. nything by mouth to an unconscious person.
	important symptoms ffects, both acute and ed	Skin contact Dermatitis Discomfort Pain Redness Rash Itching Swelling of ti Eye damage Eye contact Irritation Pain tearing Swelling of ti Redness Impairment of Discomfort Inhalation ma Eye damage Effects of bre Tiredness Drowsiness central nervo Convulsions Adverse effe central nervo Ingestion ma Lack of coord narcosis Eye damage Aspiration m Causes eye May cause d	may provoke the following symptoms ssue of vision ay provoke the following symptoms: eathing high concentrations of vapor may include: ous system effects ous system effects by provoke the following symptoms: dination
Prote	ction of first-aiders	and use the	conders should pay attention to self-protection, recommended personal protective equipment tential for exposure exists.



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Notes to physician : Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Hydrogen fluoride carbonyl fluoride Carbon oxides Chlorine compounds
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions :	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for : containment and cleaning up	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and



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			disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
SECTION	7. HANDLING AND ST	OR/	AGE
Techr	nical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/	/Total ventilation	:	Use with local exhaust ventilation. Use only in an area equipped with explosion-proof exhaust ventilation if advised by assessment of the local exposure potential
Advic	e on safe handling	:	Do not get on skin or clothing. Do not breathe vapors or spray mist. Do not swallow. Do not get in eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Condi	itions for safe storage	:	Do not expose drums to direct heat or temperature above 46°C (115°F) to avoid pressurizing and possibly distorting the drums. Material should not be dispensed by pouring from pail/drum shipping containers containing 5 gallons or more. The use of a drum pump is recommended for dispensing from pail/drum shipping containers with 5 gallons or more, except for smaller containers where adequate ventilation can be used to manage the exposure. Keep in properly labeled containers. Store locked up. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.
Mater	ials to avoid	:	No special restrictions on storage with other products.
Recor peratu	mmended storage tem- ure	:	< 115 °F / < 46 °C
Stora	ge period	:	> 10 y
	er information on stor- tability	:	The product has an indefinite shelf life when stored properly.



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
trans-Dichloroethylene	156-60-5	TWA	200 ppm	ACGIH
Methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m³	NIOSH REL
		ST	250 ppm 325 mg/m ³	NIOSH REL
		TWA	200 ppm 260 mg/m ³	OSHA Z-1

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI

Engineering measures	:	Minimize workplace exposure concentrations.
		Use only in an area equipped with explosion-proof exhaust
		ventilation if advised by assessment of the local exposure
		potential
		Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection	:	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Hand protection Material Glove thickness Wearing time	: :	Viton (R) 0.7 mm 120 min



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F	Remarks	:	on the concentrat applications, we r chemicals of the a glove manufactur	protect hands against chemicals depending ion specific to place of work. For special ecommend clarifying the resistance to aforementioned protective gloves with the er. Wash hands before breaks and at the Breakthrough time is not determined for the gloves often!
Eye	protection	:	Wear the followin Safety goggles	g personal protective equipment:
Skir	and body protection	:	resistance data a potential. Wear the followin Flame retardant a assessment demu atmospheres or fl Skin contact mus	e protective clothing based on chemical nd an assessment of the local exposure g personal protective equipment: antistatic protective clothing, unless onstrates that the risk of explosive ash fires is low. t be avoided by using impervious protective aprons, boots, etc).
Hyg	iene measures	:	located close to the When using do not	lushing systems and safety showers are ne working place. ot eat, drink or smoke. ed clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	colorless
Odor	:	ether-like
Odor Threshold	:	No data available
рН	:	7
Melting point/freezing point	:	< -58.0 °F / < -50.0 °C
Initial boiling point and boiling range	:	99 °F / 37 °C (1,013 hPa)
Flash point	:	Method: ASTM D 56 does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available



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		explosion limit / Upper bility limit	:	Upper flammabili 15 %(V) Method: ASTM E	
		explosion limit / Lower bility limit	:	Lower flammabili 7.0 %(V) Method: ASTM E	
	Vapor p	pressure	:	220 hPa (32 °F /	0 °C)
				647.0 hPa (77 °F	/ 25 °C)
				1,522 hPa (122 °	F / 50 °C)
	Relative	e vapor density	:	4.4	
	Density		:	1.37 g/cm³ (77 °F	7 / 25 °C)
				1.42 g/cm³ (32 °F	7 / 0 °C)
				1.31 g/cm³ (122 °	'F / 50 °C)
	Solubili Wate	ty(ies) er solubility	:	3.4 g/l(77 °F / 2	5 °C)
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Autoign	ition temperature	:	No data available	•
	Decom	position temperature	:	No data available)
	Viscosil Visc	ty osity, dynamic	:	0.47 mPa.s (77 °	F / 25 °C)
	Visc	osity, kinematic	:	No data available)
	Explosi	ve properties	:	In use may form	flammable/explosive vapor-air mixture.
	Oxidizir	ng properties	:	The substance of	mixture is not classified as oxidizing.
	Particle	size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Vapors may form flammable mixture with air In use may form flammable/explosive vapor-air mixture.
Conditions to avoid	:	None known.



Vertrel™ SMT specialty fluid

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Incom	npatible materials	:	None.	
Hazar produ	rdous decomposition	:	No hazardous	decomposition products are known.
SECTION	11. TOXICOLOGICAL	_ INF(ORMATION	
Inhala Skin o Inges	contact	es of	exposure	
Acute	e toxicity			
Not cl	assified based on avai	ilable	information.	
<u>Produ</u> Acute	u <u>ct:</u> oral toxicity	:	Acute toxicity e Method: Calcul	stimate: > 5,000 mg/kg ation method
Acute	inhalation toxicity	:	Acute toxicity e Exposure time: Test atmosphe Method: Calcul	re: vapor
Acute	e dermal toxicity	:	Acute toxicity e Method: Calcul	stimate: > 5,000 mg/kg ation method
Comp	oonents:			
trans	-Dichloroethylene:			
Acute	oral toxicity	:	LD50 (Rat): 7,9	02 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 95 Exposure time: Test atmosphe Method: OECD	4 h
			Lowest observe ppm	ed adverse effect concentration (Dog): 250000
			Cardiac sensiti	sation threshold limit (Dog): 991,309 mg/m³
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 5,000 mg/kg
Metha	anol			
	oral toxicity	:	Acute toxicity e Method: Expert	stimate (Humans): 300 mg/kg judgment
Acute	inhalation toxicity	:	Acute toxicity e Exposure time: Test atmosphe Method: Expert	4 h re: vapor



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			Remarks: Base 1272/2008, An	ed on harmonised classification in EU regulation nex VI
Acute	dermal toxicity	:	Acute toxicity e Method: Expert	estimate (Humans): 300 mg/kg t judgment
-	corrosion/irritation assified based on ava	ailable i	nformation.	
<u>Comp</u>	oonents:			
trans	-Dichloroethylene:			
Speci Resul		:	Rabbit Mild skin irritati	on
Metha	anol:			
Speci Resul		:	Rabbit No skin irritatio	n
	us eye damage/eye es eye irritation.	irritatio	on	
Comp	oonents:			
trans	-Dichloroethylene:			
Speci Resul		:	Rabbit Irritation to eye	s, reversing within 7 days
Metha	anol:			
Speci Resul		:	Rabbit No eye irritatio	n
Respi	iratory or skin sensi	tizatio	n	
	sensitization assified based on ava	ailable i	nformation.	
-	iratory sensitization assified based on ava		nformation.	
Comp	oonents:			
Metha Test 1 Route Speci Resul	Type s of exposure es	:	Maximization T Skin contact Guinea pig negative	est

Germ cell mutagenicity

Not classified based on available information.



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Comp	oonents:				
trans	-Dichloroethylene:				
	cell mutagenicity - ssment	:	Weight of evide cell mutagen.	nce does not support classification as a gern	
Metha	anol:				
Geno	toxicity in vitro	:		terial reverse mutation assay (AMES) Test Guideline 471 e	
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test e	
Geno	toxicity in vivo	:	cytogenetic ass Species: Mouse	e ite: Intraperitoneal injection	
	nogenicity assified based on ava	ailable	information.		
Comp	oonents:				
Metha					
Speci Applic	es cation Route sure time	:	Mouse inhalation (vapo 18 Months negative	pr)	
IARC		No ingredient of this product present at levels greater than or equal to 0.1% identified as probable, possible or confirmed human carcinogen by IARC.			
OSH/			this product pres	sent at levels greater than or equal to 0.1% is ogens.	
NTP				ent at levels greater than or equal to 0.1% is ed carcinogen by NTP.	
-	oductive toxicity assified based on ava	ailable	information.		
<u>Comp</u>	oonents:				
Metha	anol:				
Effect	s on fertility	:	Test Type: Fert Species: Mouse Application Rou Result: negative	ite: Ingestion	
Effect	s on fetal developme	nt :	Test Type: Eml Species: Mouse Application Rou		



/ersion 0.1	Revision Date: 04/05/2019	SDS Number: 1327136-00037	Date of last issue: 08/09/2018 Date of first issue: 02/27/2017
		Result: positive Remarks: The es.	effects were seen only at maternally toxic dos
May c	-single exposure cause drowsiness or o cause damage to orga	lizziness. ans (Eye, Central nervo	bus system).
Comp	oonents:		
trans	-Dichloroethylene:		
Asses	ssment	: May cause dro	wsiness or dizziness.
Metha	anol:		
	et Organs ssment	: Eye, Central ne : Causes damag	
	-repeated exposure assified based on ava		
Com	oonents:		
trans	-Dichloroethylene:		
Asses	ssment		nealth effects observed in animals at concent mV/6h/d or less.
Repe	ated dose toxicity		
Comp	oonents:		
trans	-Dichloroethylene:		
Speci		: Rat	
NOAE LOAE		: 4000 ppm : > 4000 ppm	
Applic	ation Route	: inhalation (gas))
Expos Metho	sure time	: 90 d : OECD Test Gu	idalina 412
Rema			adverse effects were reported
Speci		: Rat	
NOAE LOAE		: 3,000 mg/kg : > 3,000 mg/kg	
	cation Route	: Ingestion	
Expos Rema	sure time arks	: 90 d : No significant a	adverse effects were reported
Metha	anol:		
Speci		: Rat	
NOAE		: 1.06 mg/l	
	cation Route sure time	: inhalation (vap : 90 Days	<i>(</i> IU <i>)</i>



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Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

trans-Dichloroethylene:	
Toxicity to fish	LC50 (Lepomis macrochirus (Bluegill sunfish)): 135 mg/l Exposure time: 96 h
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 220 mg/l Exposure time: 48 h
Toxicity to algae/aquatic : plants	EC50 (Pseudokirchneriella subcapitata (green algae)): 36.36 mg/l Exposure time: 72 h
Methanol:	
Toxicity to fish	LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l Exposure time: 96 h
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic : plants	EC50 (Pseudokirchneriella subcapitata (green algae)): 22,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- : icity)	NOEC (Oryzias latipes (Orange-red killifish)): 15,800 mg/l Exposure time: 200 h
Toxicity to microorganisms :	IC50: > 1,000 mg/l Exposure time: 3 h
Persistence and degradability	
Components:	
trans-Dichloroethylene: Biodegradability :	Result: Not readily biodegradable. Method: OECD Test Guideline 301D
Methanol:	
Biodegradability :	Result: Readily biodegradable. Biodegradation: 95 % Exposure time: 20 d



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Bioa	ccumulative potential	l		
<u>Com</u>	ponents:			
Partit	-Dichloroethylene: tion coefficient: n- nol/water	:	log Pow: 2.06	
Meth	anol:			
Bioad	ccumulation	:		us idus (Golden orfe) factor (BCF): < 10
	tion coefficient: n- nol/water	:	log Pow: -0.77	
Mobi	ility in soil			
	ata available			
Othe	r adverse effects			
No da	ata available			

SECTION 13. DISPOSAL CONSIDERATIONS

Dis	ро	sal r	nethods	
		-		

Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

49	CFR
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UN/ID/NA number	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s.
		(trans-Dichloroethylene)
Class	:	9
Packing group	:	III



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	Code le pollutant	SIZES WHER	NFORMATION ONLY APPLIES TO PACKAGE E THE HAZARDOUS SUBSTANCE MEETS "ABLE QUANTITY.

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

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
trans-Dichloroethylene	156-60-5	1000	2325
Methanol	67-56-1	5000	125187

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:		age or eye irritation jan toxicity (single or re	epeated exposure)
SARA 313	:		ponents are subject to RA Title III, Section 31	
		Methanol	67-56-1	>= 1 - < 5 %

US State Regulations

Pennsylvania Right To Know

1,1,1,2,2,3,4,5,5,5-Decafluoropentane	138495-42-8
trans-Dichloroethylene	156-60-5
Methanol	67-56-1

California Prop. 65

WARNING: This product can expose you to chemicals including Nitromethane, which is/are known to the State of California to cause cancer, and Methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

trans-Dichloroethylene	156-60-5
Methanol	67-56-1



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California Permissible Exposure Limits for Chemical Contaminants

Methanol

67-56-1

Additional regulatory information

1,1,1,2,2,3,4,5,5,5-

138495-42-8

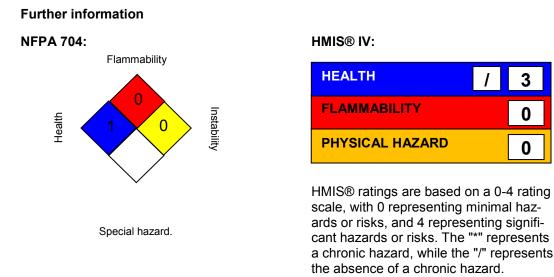
Decafluoropentane

The United States Environmental Protection Agency (USEPA) has established a Significant New Use Rule (SNUR) for one of the components in this product.

See 40 CFR § 721.5645

This material contains one or more substances which requires export notification under TSCA Section 12(b) and 40 CFR Part 707 Subpart D:

SECTION 16. OTHER INFORMATION



Vertrel[™] and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC.

Chemours[™] and the Chemours Logo are trademarks of The Chemours Company. Before use read Chemours safety information.

For further information contact the local Chemours office or nominated distributors. All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-
		its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour
		workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded



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at any time during a workdayOSHA Z-1 / TWA: 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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: RCRA - Resource Conservation and Recovery Act: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

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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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.