according to the Hazardous Products Regulations



PERFECT COPPER SPRAY, 315 g

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SEC	SECTION 1. IDENTIFICATION								
	Product	t name	:	PERFECT COPP	PERFECT COPPER SPRAY, 315 g				
	Product	t code	:	893.114118					
	Other n	neans of identification	:	No data available					
	Manufa	acturer or supplier's o	deta	ails					
	Compa	ny name of supplier	:	Würth Canada Lir	nited/Limitée				
	Address		:	345 Hanlon Creel GUELPH, ON N1	-				
	Telepho	one	:	1-800-263-5002					
	Telefax		:	1-905-564-3671					
	Emerge	ency telephone	:		lving a spill, fire, explosion or exposure: 7): 1-800-424-9300				
					ant un déversement, incendie, explosion ou ITREC (24/7): 1-800-424-9300				
	E-mail a	address	:	prodsafe@wurth.	ca				
		mended use of the c	hen		ons on use				
	Recom	mended use	:	Coloring agent					
	Restrict	ions on use	:	Not applicable					

SECTION 2. HAZARDS IDENTIFICATION

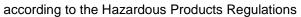
GHS classification in accordance with the Hazardous Products Regulations Aerosols : Category 1						
Skin sensitization	:	Sub-category 1A				
Reproductive toxicity	:	Category 2				
Specific target organ toxicity - repeated exposure	:	Category 2 (Auditory system)				
Specific target organ toxicity - single exposure	:	Category 3				
Eye irritation	:	Category 2A				
CUS label elemente						

GHS label elements



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Haza	rd pictograms						
Signa	l Word	: Danger					
Hazard Statements		H229 Pressuri H317 May cau H319 Causes H336 May cau H361 Suspect H373 May cau	 H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs (Auditory system) through prolonged or repeated exposure. 				
Preca	utionary Statements	P202 Do not h and understoc P210 Keep aw and other ignit P211 Do not s P251 Do not p P260 Do not b P264 Wash sk P271 Use only P272 Contami the workplace	vay from heat, hot surfaces, sparks, open flames ion sources. No smoking. pray on an open flame or other ignition source. ierce or burn, even after use. reathe spray. tin thoroughly after handling. v outdoors or in a well-ventilated area. nated work clothing should not be allowed out of otective gloves, protective clothing, eye protection				
		Response:					
		P304 + P340 - and keep com unwell. P305 + P351 - for several mir to do. Continu P308 + P313 I P333 + P313 I tion. P337 + P313 I	 F ON SKIN: Wash with plenty of water. P312 IF INHALED: Remove person to fresh air fortable for breathing. Call a doctor if you feel P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and easy e rinsing. F exposed or concerned: Get medical attention. f skin irritation or rash occurs: Get medical atten- f eye irritation persists: Get medical attention. Take off contaminated clothing and wash it before 				
		tures exceedir	cked up. Protect from sunlight. Do not expose to tempera- lg 50 °C (122 °F).				
		Disposal: P501 Dispose	of contents and container to an approved waste				





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disposal plant.

: Mixture

Other hazards

Repeated exposure may cause skin dryness or cracking.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Dimethyl ether	Methane, 1,1'- oxybis-	115-10-6	>= 30 - < 60 *
Acetone	2-Propanone	67-64-1	>= 30 - < 60 *
Xylene	Benzene, dime- thyl-	1330-20-7	>= 5 - < 10 *
Ethanol	Ethyl alcohol	64-17-5	>= 1 - < 5 *
n-Butyl acetate	Acetic acid, butyl ester	123-86-4	>= 1 - < 5 *
2-Methoxy-1- methylethyl acetate	Methoxyisopro- pyl acetate	108-65-6	>= 1 - < 5 *
Ethylbenzene	Benzene, ethyl-	100-41-4	>= 1 - < 5 *
Butyl glycollate	Acetic acid, 2- hydroxy-, butyl ester	7397-62-8	>= 0.1 - < 1 *
Fatty acids, tall-oil, esters with polyeth- ylene glycol mono(hydrogen male- ate), compds. with amides	No data availa- ble	222716-38-3	>= 0.1 - < 1 *
Maleic anhydride	2,5-Furandione	108-31-6	>= 0.001 - < 0.1 *

Actual concentration or concentration range 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 ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water

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		for at least 15 If easy to do, i Get medical a	remove contact lens, if worn.				
lf s	wallowed	Get medical a	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.				
and	st important symptoms I effects, both acute and ayed	tion. May cause an Causes seriou May cause dro Suspected of	repeated contact may dry skin and cause irrita- allergic skin reaction. Is eye irritation. Dwsiness or dizziness. damaging fertility or the unborn child. mage to organs through prolonged or repeated				
Pro	tection of first-aiders	and use the re	onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists (see section 8).				
Not	es to physician	: Treat symptor	natically 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	:	Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx)
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 : In the event of fire, wear self-contained breathing apparatus.

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for fir	e-fighters		Use personal protective equipment.						
SECTION	SECTION 6. ACCIDENTAL RELEASE MEASURES								
tive e	onal precautions, protec- quipment and emer- y procedures	:	Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).						
Envir	Environmental precautions		Avoid release to the environment. 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.						
	ods and materials for inment and cleaning up	:	Soak up with iner Suppress (knock jet. For large spills, pr ment to keep mat pumped, store red Clean up remainin bent. Local or national sal of this materia ployed in the clea which regulations Sections 13 and 1	as should be used. t absorbent material. down) gases/vapors/mists with a water spray rovide diking or other appropriate contain- erial from spreading. If diked material can be covered material in appropriate container. In materials from spill with suitable absor- regulations may apply to releases and dispo- I, as well as those materials and items em- nup of releases. You will need to determine are applicable. 15 of this SDS provide information regarding tional requirements.					

SECTION 7. HANDLING AND STORAGE

Technical measures	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	If sufficient ventilation is unavailable, use with local exhaust ventilation. If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventila- tion.
Advice on safe handling	Do not get on skin or clothing. Do not breathe spray. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety

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		sessr Keep other Take Take envire	nent away from l ignition sou precautiona care to prev onment.	n the results of the workplace exposure as- neat, hot surfaces, sparks, open flames and rces. No smoking. ry measures against static discharges. ent spills, waste and minimize release to the an open flame or other ignition source.		
Cond	Conditions for safe storage		Store locked up. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Do not pierce or burn, even after use. Keep cool. Protect from sunlight.			
Mate	rials to avoid	Self-r Orga Oxidi Flam Pyrop Pyrop Self-r Subs flamn	eactive subs nic peroxide zing agents mable solids phoric liquids phoric solids neating subs tances and r nable gases psives			
Reco perat	mmended storage tem- ure	: < 50	C			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis				
Dimethyl ether	115-10-6	TWA	1,000 ppm	CA BC OEL				
Acetone	67-64-1	TWA	500 ppm 1,200 mg/m ³	CA AB OEL				
		STEL	750 ppm 1,800 mg/m ³	CA AB OEL				
		TWA	250 ppm	CA BC OEL				
		STEL	500 ppm	CA BC OEL				
		TWAEV	250 ppm	CA QC OEL				
		STEV	500 ppm	CA QC OEL				
		TWA	250 ppm	ACGIH				
		STEL	500 ppm	ACGIH				
Xylene	1330-20-7	TWA	100 ppm 434 mg/m ³	CA AB OEL				
		STEL	150 ppm	CA AB OEL				

Ingredients with workplace control parameters



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			054	
			651 mg/m ³	
		TWAEV	100 ppm 434 mg/m³	CA QC O
		STEV	150 ppm 651 mg/m³	CA QC O
		TWA	100 ppm	CA BC O
		STEL	150 ppm	CA BC O
		TWA	20 ppm	ACGIH
Ethanol	64-17-5	TWA	1,000 ppm 1,880 mg/m ³	CA AB O
		STEL	1,000 ppm	CA BC O
		STEV	1,000 ppm	CA QC O
		STEL	1,000 ppm	ACGIH
n-Butyl acetate	123-86-4	STEL	200 ppm 950 mg/m ³	CA AB O
		TWA	150 ppm 713 mg/m ³	CA AB O
		TWAEV	50 ppm	CA QC O
		STEV	150 ppm	CA QC O
		TWA	50 ppm	CA BC O
		STEL	150 ppm	CA BC O
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
2-Methoxy-1-methylethyl ace- tate	108-65-6	TWA	50 ppm	CA BC O
		STEL	75 ppm	CA BC O
		TWA	50 ppm 270 mg/m³	CA ON O
Ethylbenzene	100-41-4	STEL	125 ppm	CA AB O
			543 mg/m ³	
		TWA	100 ppm 434 mg/m³	CA AB O
		TWA	20 ppm	CA BC O
		TWAEV	20 ppm	CA QC O
		TWA	20 ppm	ACGIH
Maleic anhydride	108-31-6	TWA	0.1 ppm 0.4 mg/m³	CA AB O
		TWA	0.1 ppm	CA BC O
		TWAEV (in- halable frac- tion and va- pour)	0.01 mg/m³	CA QC O
		TWA (Inha- lable fraction and vapor)	0.01 mg/m ³	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control	Biological	Sam-	Permissible	Basis
		parameters	specimen	pling	concentra-	
				time	tion	
Xylene	1330-20-7	Methyl-	Urine	End of	0.3 g/g cre-	ACGIH



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			hippuric acids		shift (As soon as possible after exposure ceases)	atinine	BEI
Ethylt	benzene	100-41-4	Sum of mandelic acid and phenyl gly- oxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	150 mg/g creatinine	ACGIH BEI
Aceto	DNE	67-64-1	Acetone	Urine	End of shift (As soon as possible after exposure ceases)	25 mg/l	ACGIH BEI
	onal protective equ	ve If a on lat uipment : If a su	sufficient ventil ntilation. advised by ass ly in an area e ion. adequate local re assessment	essment of quipped wit exhaust ve t demonstra	the local exp th explosion-p entilation is no ates exposure	oosure potent proof exhaus ot available o es outside the	ial, use t venti- r expo-
Fil	lter type		mmended guid			protection.	
Hand	protection						
Br	aterial eak through time ove thickness	: 15	tyl-rubber min 7 mm				
Re	emarks	on ap mi ma	noose gloves to the concentra plications, we cals of the afo anufacturer. W orkday.	tion specific recommence rementione	c to place of y d clarifying th d protective g	work. For spe e resistance gloves with th	ecial to che- e glove
Eye p	protection		ear the followir fety goggles	ng personal	protective ed	quipment:	

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		If assessment de atmospheres or protective clothir Skin contact mu	ng personal protective equipment: emonstrates that there is a risk of explosive flash fires, use flame retardant antistatic ng. st be avoided by using impervious protective aprons, boots, etc).	
Hygiene measures		 If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of workplace. Wash contaminated clothing before re-use. 		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aerosol containing a liquefied gas
Propellant	:	Dimethyl ether
Color	:	colored
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	substance/mixture is non-soluble (in water)
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Extremely flammable aerosol.
Upper explosion limit / Upper flammability limit	:	18.6 %(V)
Lower explosion limit / Lower flammability limit	:	2.6 %(V)

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Vapor	pressure	: 3,400 H	nPa (20 °C	;)
Relativ	ve vapor density	: Not ap	plicable	
Densit	y	: 0.75 g/	′cm³ (20 °(C)
	lity(ies) ater solubility	: partly r	niscible	
	on coefficient: n- bl/water	: Not ap	plicable	
Autoig	nition temperature	: 235 °C		
Decon	Decomposition temperature		a available	9
Viscos Vis	sity cosity, kinematic	: Not ap	plicable	
Explos	sive properties	: Not ex	plosive	
Oxidiz	ing properties	: The su	bstance o	r mixture is not classified as oxidizing.
Particl Particl	e characteristics e size	: Not ap	plicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Extremely flammable aerosol. Vapors may form explosive mixture with air. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Skin contact

according to the Hazardous Products Regulations



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Ingest Eye c	tion ontact			
	e toxicity			
	assified based on avail	able	information.	
Produ				
Acute	oral toxicity	•	Method: Calculation	mate: > 2,000 mg/kg on method
Acute	inhalation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Calculation	h vapor
Acute	dermal toxicity	:	Acute toxicity estine Method: Calculation	mate: > 2,000 mg/kg on method
Comp	oonents:			
Dime	thyl ether:			
Acute	inhalation toxicity	:	LC50 (Rat): 16400 Exposure time: 4 Test atmosphere:	h
Aceto	one:			
Acute	oral toxicity	:	LD50 (Rat): 5,800	mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 76 mg Exposure time: 4 Test atmosphere:	ĥ
Acute	dermal toxicity	:	LD50 (Rabbit): 7,4	426 mg/kg
Xylen	ie:			
-	oral toxicity	:	LD50 (Rat): 3,523 Method: Directive	mg/kg 67/548/EEC, Annex V, B.1.
Acute	inhalation toxicity	:	LC50 (Rat): 27.57 Exposure time: 4 Test atmosphere:	h
Acute	dermal toxicity	:	LD50 (Rabbit): > 4	4,200 mg/kg
Ethar	nol:			
Acute	oral toxicity	:	LD50 (Rat): 10,47 Method: OECD Te	
Acute	inhalation toxicity	:	LC50 (Rat, male): Exposure time: 4 Test atmosphere:	h

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Acute	dermal toxicity	: LD50 (Rabbit): > 15,800 mg/kg			
n-But	yl acetate:				
Acute	oral toxicity	: LD50 (Rat): > 5,000 mg/kg			
Acute	inhalation toxicity	LC50 (Rat): > 21.1 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403			
Acute	dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg			
2-Met	hoxy-1-methylethyl a	cetate:			
Acute	oral toxicity	: LD50 (Rat, female): 5,155 mg/kg			
Acute	inhalation toxicity	: LC50 (Rat): > 9.34 mg/l Exposure time: 4 h Test atmosphere: vapor			
Acute	dermal toxicity	 LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute derma toxicity 	al		
Ethyll	benzene:				
-	oral toxicity	: LD50 (Rat): 3,500 mg/kg			
Acute	inhalation toxicity	: LC50 (Rat): 17.8 mg/l Exposure time: 4 h Test atmosphere: vapor			
Acute	dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg			
Butyl	glycollate:				
Acute	oral toxicity	: LD50 (Rat): 4,595 mg/kg			
Acute	inhalation toxicity	: LC0 (Rat): >= 6.2 mg/l Exposure time: 4 h Test atmosphere: vapor			
	acids, tall-oil, esters amides:	with polyethylene glycol mono(hydrogen maleate), compds.			
Acute	oral toxicity	: Acute toxicity estimate (Rat): 500 mg/kg Method: Expert judgment			
Malei	c anhydride:				
	oral toxicity	: LD50 (Rat): 1,090 mg/kg Method: OECD Test Guideline 401			
Acute	inhalation toxicity	: LC50 (Rat): > 4.35 mg/l			

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		Exposure time: 1 h Test atmosphere: vapor	
Acute	e dermal toxicity	: LD50 (Rabbit): 2,620 mg/k	g
Skin	corrosion/irritation		
Not cl	lassified based on av	ailable information.	
Com	ponents:		
Aceto	one:		
Asses	ssment	: Repeated exposure may ca	ause skin dryness or cracking.
Xylen	ne:		
Speci Resul		: Rabbit	
Resu	IL	: Skin irritation	
Ethar	nol:		
Speci	ies	: Rabbit	
Metho		: OECD Test Guideline 404	
Resul	lt	: No skin irritation	
n-But	tyl acetate:		
Speci	ies	: Rabbit	
Resul	lt	: No skin irritation	
Asses	ssment	: Repeated exposure may ca	ause skin dryness or cracking.
2-Met	thoxy-1-methylethyl	acetate:	
Speci	ies	: Rabbit	
Resul	lt	: No skin irritation	
Butyl	glycollate:		
Speci	ies	: Rabbit	
Resul	lt	: No skin irritation	
	acids, tall-oil, ester amides:	s with polyethylene glycol mono	(hydrogen maleate), compds.
Resul	lt	: Skin irritation	
Malei	ic anhydride:		
Speci	-	: in vitro membrane barrier	
Metho	bc	: OECD Test Guideline 435	
Rema	arks	: Based on data from similar	materials
Resul	1+	: Corrosive after 3 minutes to	

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Serio	us eye damage/eye	rritation	
Cause	es serious eye irritatio	۱.	
Comp	oonents:		
Aceto	one:		
Specie	es	: Rabbit	
Resul		: Irritation to eyes, reversing within 21 days	
Metho	od	: OECD Test Guideline 405	
Xylen	e:		
Specie		: Rabbit	
Resul		: Irritation to eyes, reversing within 21 days	
Ethan	ol:		
Specie	es	: Rabbit	
Result		: Irritation to eyes, reversing within 21 days	
Metho	bd	: OECD Test Guideline 405	
n-But	yl acetate:		
Specie	-	: Rabbit	
Resul		: No eye irritation	
Metho	od	: OECD Test Guideline 405	
2-Met	hoxy-1-methylethyl	acetate:	
Specie	es	: Rabbit	
Resul	t	: No eye irritation	
Butyl	glycollate:		
Specie	•••	: Rabbit	
Resul		: Irreversible effects on the eye	
	acids, tall-oil, esters amides:	with polyethylene glycol mono(hydrogen maleate), co	omp
Resul	t	: Irritation to eyes, reversing within 21 days	
Malei	c anhydride:		
Specie	•	: Rabbit	
Result		: Irreversible effects on the eye	
Respi	ratory or skin sensi	ization	
Skin s	sensitization		
May c	ause an allergic skin	eaction.	
Respi	ratory sensitization		
-	assified based on ava	ilable information.	

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Con	nponents:		
	t one: : Type	: Maximization To	est
Rou	tes of exposure	: Skin contact	
Spe Res		: Guinea pig	
Kes	un	: negative	
Xyle	ene:		
	Туре		de assay (LLNA)
Rou Spe	tes of exposure	: Skin contact : Mouse	
Res		: negative	
		, C	
	anol:		
	Type	: Mouse ear swe : Skin contact	lling test (MEST)
Spe	tes of exposure cies	: Mouse	
Res		: negative	
n-Bı	utyl acetate:		
Test	Туре	: Maximization To	est
	tes of exposure	: Skin contact	
Spe Res		: Guinea pig : negative	
Kes	un	. negative	
2-M	ethoxy-1-methylethyl	acetate:	
	Туре	: Maximization To	est
Rou Spe	tes of exposure	: Skin contact : Guinea pig	
Meth		: OECD Test Gui	deline 406
Res		: negative	
	· · · · ·		
-	yl glycollate:	 .	
	: Type tes of exposure	: Maximization To : Skin contact	est
Spe		: Guinea pig	
Meth		: OECD Test Gui	deline 406
Res	ult	: negative	
	y acids, tall-oil, esters amides:	s with polyethylene gl	ycol mono(hydrogen maleate), compds.
Test	туре	: Maximization To	est
Rou	tes of exposure	: Skin contact	
Spe		: Guinea pig	
Res	ult narks	: positive : Based on data t	from similar materials
Rell	10175	. Daseu on data l	

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Asse Rema	ssment arks		Probability or evidence of skin sensitization in humansBased on data from similar materials				
Test	es of exposure ies	: Local lymph noo : Skin contact : Mouse : positive	le assay (LLNA)				
Asse	ssment	: Probability or ev mans	Probability or evidence of high skin sensitization rate in hu- mans				
Route Spec Resu		: inhalation (dust/ : Rat : positive	mist/fume)				
Asse	ssment	: Probability of rea	spiratory sensitization in humans based on				
Not c	n cell mutagenicity classified based on ava ponents:	ilable information.					
	ethyl ether: otoxicity in vitro	Method: OECD	erial reverse mutation assay (AMES) Test Guideline 471				
			mosome aberration test in vitro Test Guideline 473				
			ro mammalian cell gene mutation test Test Guideline 476				
Genc	otoxicity in vivo	anogaster (in viv	te: inhalation (gas)				
Acet Geno	one: otoxicity in vitro	: Test Type: In vit	ro mammalian cell gene mutation test				
		Result: negative	erial reverse mutation assay (AMES)				
		Test Type: Chro Result: negative	mosome aberration test in vitro				

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Genot	toxicity in vivo	cytogenetic a Species: Mou	se oute: Ingestion		
Xylen					
Genot	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive		
		Test Type: Cl Result: negat	nromosome aberration test in vitro		
		Test Type: In Result: negat	vitro mammalian cell gene mutation test ive		
		Test Type: In malian cells Result: negat	vitro sister chromatid exchange assay in mam		
Genotoxicity in vivo		Species: Mou Application R	: Test Type: Rodent dominant lethal test (germ cell) (in vivo Species: Mouse Application Route: Skin contact Result: negative		
Ethan	nol:				
Genot	toxicity in vitro		acterial reverse mutation assay (AMES) D Test Guideline 471 ive		
			vitro mammalian cell gene mutation test D Test Guideline 476 ive		
		Test Type: Cl Result: negat	nromosome aberration test in vitro ive		
Genot	toxicity in vivo	cytogenetic a Species: Rat	oute: Ingestion		
n-But	yl acetate:				
Genot	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive		
2-Met	hoxy-1-methylethyl	acetate:			
	toxicity in vitro		acterial reverse mutation assay (AMES)		

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			Test Type: Chror Result: negative	nosome aberration test in vitro
				damage and repair, unscheduled DNA syn- llian cells (in vitro)
Ethyll	penzene:			
-	oxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
				o mammalian cell gene mutation test est Guideline 476
			Test Type: Chror Result: negative	nosome aberration test in vitro
Genotoxicity in vivo		:	mammalian liver Species: Mouse Application Route	
Butyl	glycollate:			
-	oxicity in vitro	:		nosome aberration test in vitro est Guideline 473
				rial reverse mutation assay (AMES) est Guideline 471
			Test Type: Mous Method: OECD 1 Result: negative	e Lymphoma ēst Guideline 476
Malei	c anhydride:			
	oxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Method: OECD 7 Result: negative	o mammalian cell gene mutation test Test Guideline 476 on data from similar materials
Genot	oxicity in vivo	:	cytogenetic test, Species: Rat	genicity (in vivo mammalian bone-marrow chromosomal analysis) e: inhalation (vapor)

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Carcinogenicity

_

Not classified based on available information.

Components:

Dimethyl ether:

:	Rat
:	inhalation (vapor)
:	2 Years
:	negative
	:

Acetone:

Species	:	Mouse
Application Route	:	Skin contact
Exposure time	:	424 days
Result	:	negative

Xylene:

Species	: Rat	
Application Route	: Ingestion	
Exposure time	: 103 week	s
Result	: negative	

2-Methoxy-1-methylethyl acetate:

Rat
nhalation (vapor)
2 Years
OECD Test Guideline 453
negative
Based on data from similar materials

Ethylbenzene:

Species	:	Rat
Application Route	:	inhalation (vapor)
Exposure time	:	104 weeks
Result	:	positive
Remarks	:	The mechanism or mode of action may not be relevant in hu-
		mans.

Maleic anhydride:

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	2 Years
Result	:	negative

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

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Comp	onents:			
	hyl ether: s on fertility	:	reproduction/devo Species: Rat	nined repeated dose toxicity study with the elopmental toxicity screening test e: inhalation (vapor)
Effects	s on fetal development	:	Test Type: Embry Species: Rat	yo-fetal development e: inhalation (vapor)
Aceto	ne:			
Effects	s on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	generation reproduction toxicity study e: Ingestion
Effects	s on fetal development	:	Species: Rat	yo-fetal development e: inhalation (vapor)
Xylen	e:			
Effects	s on fertility	:	Species: Rat	generation reproduction toxicity study e: inhalation (vapor)
Effects	s on fetal development	:	Species: Rat	yo-fetal development e: inhalation (vapor)
Ethan	ol:			
Effects	s on fertility	:	Test Type: Two-g Species: Mouse Application Route Result: negative	generation reproduction toxicity study e: Ingestion
n-Buty	yl acetate:			
-	s on fertility	:	Species: Rat Application Route	generation reproduction toxicity study e: inhalation (vapor) Test Guideline 416
Effects	s on fetal development	:	Test Type: Embry Species: Rat	yo-fetal development

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				Application Route Result: negative	: inhalation (vapor)			
2.	-Meth	oxy-1-methylethyl ac	etat	e:				
Effects on fertility :				Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapor) Method: OECD Test Guideline 416 Result: negative Remarks: Based on data from similar materials				
E	Effects on fetal development		:	Test Type: Embryo-fetal development Species: Rat Application Route: inhalation (vapor) Result: negative				
E	Ethylbe	enzene:						
E	Effects	on fertility	:	Species: Rat	eneration reproduction toxicity study : inhalation (vapor) est Guideline 416			
E	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD To Result: negative				
В	Butyl g	lycollate:						
		on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD To Result: positive				
	Reprod essme	uctive toxicity - As- ent	:		f adverse effects on sexual function and development, based on animal experiments.			
Μ	laleic	anhydride:						
		on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion			
E	ffects	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	o-fetal development : Ingestion			

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sтот	-single exposure	
May c	ause drowsiness or o	dizziness.
<u>Comp</u>	onents:	
Dime	hyl ether:	
Asses	sment	: May cause drowsiness or dizziness.
Aceto	ne:	
Asses	sment	: May cause drowsiness or dizziness.
Xylen		
Asses	sment	: May cause respiratory irritation.
	yl acetate:	
Asses	sment	: May cause drowsiness or dizziness.
2-Met	hoxy-1-methylethyl	acetate:
Asses	sment	: May cause drowsiness or dizziness.
May c	 -repeated exposure ause damage to organ 	ans (Auditory system) through prolonged or repeated exposure.
Xylen	e:	
-	s of exposure	: inhalation (vapor)
-	t Organs sment	 Auditory system Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d.
Ethyl	benzene:	
	s of exposure	: inhalation (vapor)
	t Organs sment	 Auditory system Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d.
	acids. tall-oil. ester	s with polyethylene glycol mono(hydrogen maleate), compds.
	mides:	
		 Ingestion Shown to produce significant health effects in animals at cor centrations of >10 to 100 mg/kg bw.
Malei	mides: s of exposure	: Shown to produce significant health effects in animals at co
Route	amides: s of exposure sment	: Shown to produce significant health effects in animals at co

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Repe	ated dose toxicity		
<u>Com</u>	ponents:		
Dime	ethyl ether:		

Species NOAEL Application Route Exposure time	: Rat : 47.11 mg/l : inhalation (vapor) : 2 y
Acetone: Species NOAEL LOAEL Application Route Exposure time	: Rat : 900 mg/kg : 1,700 mg/kg : Ingestion : 90 Days
Species NOAEL Application Route Exposure time	: Rat : 45 mg/l : inhalation (vapor) : 8 Weeks
Xylene: Species LOAEL Application Route Exposure time Remarks	 Rat > 0.2 - 1 mg/l inhalation (vapor) 13 Weeks Based on data from similar materials
Species LOAEL Application Route Exposure time	: Rat : 150 mg/kg : Ingestion : 90 Days
Ethanol: Species NOAEL LOAEL Application Route Exposure time	 Rat 1,730 mg/kg 3,200 mg/kg Ingestion 90 Days
n-Butyl acetate: Species NOAEL Application Route Exposure time	: Rat : 2.4 mg/l : inhalation (vapor) : 90 Days

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2-Met	2-Methoxy-1-methylethyl acetate:								
Species NOAEL Application Route Exposure time Method		 Rat >= 1,000 mg/kg Ingestion 41 - 45 Days OECD Test Guideline 422 							
	EL cation Route sure time od	 Rat > 1 mg/l inhalation (vapor) 2 y OECD Test Guideline 453 Based on data from similar materials 							
Species NOAEL Application Route Exposure time Remarks		 Rabbit > 200 mg/kg Skin contact 90 Days Based on data from similar materials 							
Speci LOAE Applio		: Rat : 0.868 mg/l : inhalation (vapor) : 13 Weeks							
Speci NOAE LOAE Applic Metho	EL EL cation Route	: Rat : 75 mg/kg : 250 mg/kg : Ingestion : OECD Test Guideline 408							
Speci NOAE Applio	EL cation Route sure time	 Rat 1,000 mg/kg Ingestion 29 Days OECD Test Guideline 407 							
	acids, tall-oil, esters amides:	s with polyethylene glycol mono(hydrogen maleate), compds.							
Speci NOAE LOAE Applic	es EL EL cation Route sure time od	 Rat 7 mg/kg 22 mg/kg Ingestion 40 - 50 Days OECD Test Guideline 422 Based on data from similar materials 							
Malei Speci	c anhydride: es	: Rat							

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Apr Exp Spe LO/ Apr	AEL Dication Route Dosure time Decies AEL Dication Route Dosure time	:	100 mg/kg Ingestion 90 Days Rat 0.01 mg/l inhalation (vapor) 28 Days	

Aspiration toxicity

Not classified based on available information.

Components:

Acetone:

The substance or mixture causes concern owing to the assumption that it causes a human aspiration toxicity hazard.

Xylene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Ethylbenzene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

Components:

Dimethyl ether:

Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): > 4,100 mg/l Exposure time: 96 h	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 4,400 mg/l Exposure time: 48 h	
Toxicity to microorganisms	:	EC10 (Pseudomonas putida): > 1,600 mg/l	
Acetone:			
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 5,540 mg/l Exposure time: 96 h	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia pulex (Water flea)): 8,800 mg/l Exposure time: 48 h	
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 7,000 mg/l	

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				Exposure time: 96	h h	
	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te		
	Toxicity to microorganisms		:	EC50: 61,150 mg/l Exposure time: 30 min Method: ISO 8192		
	Xylene:					
	Toxicity		:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 13.5 mg/l i h	
	Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 24 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials		
	Toxicity plants	to algae/aquatic	:	EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): 10 mg/l ! h	
	Toxicity icity)	to fish (Chronic tox-	:	 NOEC (Danio rerio (zebra fish)): > 0.1 - < 1 mg/l Exposure time: 35 d Method: OECD Test Guideline 210 Remarks: Based on data from similar materials 		
		to daphnia and other invertebrates (Chron- y)	 EL10 (Daphnia magna (Water flea)): > 1 - 10 Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Based on data from similar materia 		d est Guideline 211	
	Toxicity	to microorganisms	:	 NOEC: > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials 		
	Ethanol	I:				
	Toxicity		:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 14,200 mg/l i h	
		to daphnia and other invertebrates	:	: EC50 (Ceriodaphnia dubia (water flea)): 5,012 mg/l Exposure time: 48 h		
	Toxicity plants	to algae/aquatic	:	ErC50 (Chlorella) Exposure time: 72	/ulgaris (Fresh water algae)): 275 mg/l h	
				EC10 (Chlorella v Exposure time: 72	ulgaris (Fresh water algae)): 11.5 mg/l h	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 10	tipes (Japanese medaka)): >= 79 mg/l 0 d	

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	city to daphnia and other	:	NOEC (Daphnia r Exposure time: 9	nagna (Water flea)): 9.6 mg/l	
	aquatic invertebrates (Chron- ic toxicity)		Exposure time. 9 d		
Toxi	Toxicity to microorganisms		EC50 (Protozoa): 5,800 mg/l Exposure time: 4 h		
n-Bı	utyl acetate:				
Toxi	city to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 18 mg/l S h	
	city to daphnia and other atic invertebrates	:	EC50 (Daphnia sp. (Water flea)): 44 mg/l Exposure time: 48 h		
Toxi plan	city to algae/aquatic ts	:	mg/l	chneriella subcapitata (green algae)): 397	
			Exposure time: 72 Method: OECD Te		
				on data from similar materials	
			mg/l	rchneriella subcapitata (green algae)): 196	
			Exposure time: 72 Method: OECD Te		
				on data from similar materials	
	city to daphnia and other atic invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 23.2 mg/l I d	
ic to:	xicity)		Method: OECD Te Remarks: Based o	est Guideline 211 on data from similar materials	
Toxi	city to microorganisms	:	IC50 (Tetrahymer Exposure time: 40	na pyriformis): 356 mg/l) h	
2-Me	ethoxy-1-methylethyl ac	etat	e:		
Toxi	city to fish	:	•	hus mykiss (rainbow trout)): > 100 - 180	
			mg/I Exposure time: 96 Method: OECD Te		
	city to daphnia and other	:		agna (Water flea)): > 500 mg/l	
aqua	atic invertebrates		Exposure time: 48 Method: Directive	3 n 67/548/EEC, Annex V, C.2.	
	city to algae/aquatic	:	ErC50 (Raphidoce 1,000 mg/l	elis subcapitata (freshwater green alga)): >	
plan	ເວ		Exposure time: 96 Method: OECD Te		
				elis subcapitata (freshwater green alga)): >=	

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				Exposure time: 96 Method: OECD Te		
	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	NOEC (Daphnia magna (Water flea)): >= 100 mg/l Exposure time: 21 d Method: OECD Test Guideline 211		
	Toxicity	to microorganisms	:	EC10 (activated sludge): > 1,000 mg/l Exposure time: 30 min		
	Ethylbe	enzene:				
	Toxicity		:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te		
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 1.8 - 2.4 mg/l 8 h	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 96	chneriella subcapitata (green algae)): 3.6 6 h	
				NOEC (Pseudokir mg/l Exposure time: 96	chneriella subcapitata (green algae)): 3.4 Sh	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Ceriodaph Exposure time: 7	nnia dubia (water flea)): 0.96 mg/l d	
	Toxicity	to microorganisms	:	EC50 (Nitrosomor Exposure time: 24		
	Butvl a	lycollate:				
	Toxicity	-	:	LC0 (Leuciscus id Exposure time: 48 Method: DIN 3841		
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24 Method: DIN 3841		
	Toxicity plants	to algae/aquatic	:	EC10 (Lemna gib Exposure time: 7	ba (gibbous duckweed)): > 87.4 mg/l d	
	Toxicity	to microorganisms	:	EC50 (Pseudomo Exposure time: 18	nas putida): 2,320 mg/l 3 h	
			ith	polyethylene glyc	ol mono(hydrogen maleate), compds.	
	with an			LLEO (Denie reria	(a b r c f b b)) = 1 + 10 - r c''	
	Toxicity	IO IISN	:	Exposure time: 96	(zebra fish)): > 1 - 10 mg/l 5 h	

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				Remarks: Based	on data from similar materials
	Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia magna (Water flea)): > 0.1 - 1 mg/l Exposure time: 48 h Remarks: Based on data from similar materials	
	Toxicity to algae/aquatic plants		:	mg/l Exposure time: 72	smus subspicatus (green algae)): > 0.1 - 1 ? h on data from similar materials
				mg/l Exposure time: 72	mus subspicatus (green algae)): > 0.1 - 1 ? h on data from similar materials
т	Toxicity to microorganisms		:	EC50: 211 mg/l Exposure time: 3 h Remarks: Based on data from similar materials	
Ν	laleic a	anhydride:			
Т	oxicity	to fish	:	Exposure time: 48	leutralized product
		to daphnia and other invertebrates	:	Exposure time: 48 Test substance: N Method: OECD Te	leutralized product
	oxicity lants	to algae/aquatic	:	NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
				ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
a		to daphnia and other invertebrates (Chron- y)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 10 mg/l d
Т	oxicity	to microorganisms	:	Exposure time: 18	leutralized product

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Persi	stence and degrada	bility		
<u>Com</u>	ponents:			
	thyl ether: egradability	:	Biodegradation: Exposure time: 2	5%
Aceto	one:			
Biode	egradability	:	Result: Readily b Biodegradation: Exposure time: 2	91 %
Xyler	ne:			
-	egradability	:		> 70 %
Ethar	nol:			
Biode	gradability	:	Result: Readily b Biodegradation: Exposure time: 2	84 %
n-But	tyl acetate:			
	egradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	83 %
2-Met	thoxy-1-methylethyl	acetat	e:	
	egradability	:	Result: Readily b Biodegradation: Exposure time: 2	83 %
Ethyl	benzene:			
-	egradability	:	Result: Readily b Biodegradation: Exposure time: 2	70 - 80 %
Butvl	glycollate:			
-	egradability	:	Biodegradation: Exposure time: 2	81 %

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		_					
	acids, tall-oil, ester imides:	s with	polyethylene gly	ycol mono(hydrogen maleate), compds			
Biode	Biodegradability		Result: Not readily biodegradable. Remarks: Based on data from similar materials				
Malei	c anhydride:						
Biode	Biodegradability		Result: Readily biodegradable. Biodegradation: 93.2 % Exposure time: 11 d Method: OECD Test Guideline 301B				
Bioac	cumulative potentia	al					
Comp	oonents:						
Dimet	hyl ether:						
	on coefficient: n- ol/water	:	log Pow: 0.2				
Aceto	ne:						
	on coefficient: n- ol/water	:	log Pow: -0.27 -	-0.23			
Xylen	e:						
	on coefficient: n- ol/water	:	log Pow: 3.16 Remarks: Calcu	lation			
Ethan	ol:						
	on coefficient: n- ol/water	:	log Pow: -0.35				
n-But	yl acetate:						
	on coefficient: n- ol/water	:	log Pow: 2.3				
2-Met	hoxy-1-methylethyl	acetat	e:				
	on coefficient: n- bl/water	:	log Pow: 1.2				
Ethyll	benzene:						
	on coefficient: n- bl/water	:	log Pow: 3.6				
Malei	c anhydride:						
	on coefficient: n- ol/water	:	log Pow: -2.61				

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Mobility in soil No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or ex- pose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product. Please ensure aerosol cans are sprayed completely empty (including propellant)

SECTION 14. TRANSPORT INFORMATION

International Regulations

Proper shipping name:AEROSOLSClass:2.1Packing group:Not assigned by regulationLabels:2.1Environmentally hazardous:noIATA-DGRUN/ID No.:UN 1950Proper shipping name:Aerosols, flammableClass:2.1Packing group:Not assigned by regulationLabels::2.1Packing group:Not assigned by regulationLabels::203aircraft)::Packing instruction (passen- ger aircraft):203IMDG-Code::UN 1950UN number::UN 1950Proper shipping name::AEROSOLSClass::2.1	UNRTDG		
Class:2.1Packing group:Not assigned by regulationLabels:2.1Environmentally hazardous:noIATA-DGRUN/ID No.:UN 1950Proper shipping name:Aerosols, flammableClass:2.1Packing group:Not assigned by regulationLabels:2.1Packing instruction (cargo:203aircraft):203Packing instruction (passen- ger aircraft):203IMDG-Code:UN 1950UN number:UN 1950Proper shipping name:AEROSOLSClass:2.1	UN number	:	UN 1950
Packing group:Not assigned by regulationLabels:2.1Environmentally hazardous:noIATA-DGRUN/ID No.:UN 1950Proper shipping name:Aerosols, flammableClass:2.1Packing group:Not assigned by regulationLabels:2.1Packing instruction (cargo:203aircraft):Packing instruction (passenger aircraft):203IMDG-CodeUN number:UN 1950Proper shipping name:AEROSOLSClass:2.1		÷	
Labels:2.1Environmentally hazardous:noIATA-DGRUN/ID No.:UN 1950Proper shipping name:Aerosols, flammableClass:2.1Packing group:Not assigned by regulationLabels:Flammable GasPacking instruction (cargo:203aircraft)Packing instruction (passenger aircraft)IMDG-CodeUN number:UN 1950Proper shipping name:AEROSOLSClass:2.1		:	
IATA-DGRUN/ID No.:UN 1950Proper shipping name:Aerosols, flammableClass:2.1Packing group:Not assigned by regulationLabels:Flammable GasPacking instruction (cargo:203aircraft):203Packing instruction (passenger aircraft):203IMDG-Code::UN number:UN 1950Proper shipping name:AEROSOLSClass:2.1		÷	o , o
UN/ID No.:UN 1950Proper shipping name:Aerosols, flammableClass:2.1Packing group:Not assigned by regulationLabels:Flammable GasPacking instruction (cargo:203aircraft):203Packing instruction (passen- ger aircraft):203IMDG-Code::UN number:UN 1950Proper shipping name:AEROSOLSClass:2.1	Environmentally hazardous	:	no
Proper shipping name:Aerosols, flammableClass:2.1Packing group:Not assigned by regulationLabels:Flammable GasPacking instruction (cargo:203aircraft):203Packing instruction (passenger aircraft):203IMDG-Code::UN number:UN 1950Proper shipping name:AEROSOLSClass:2.1	IATA-DGR		
Class:2.1Packing group:Not assigned by regulationLabels:Flammable GasPacking instruction (cargo:203aircraft):203Packing instruction (passen- ger aircraft):203IMDG-Code::UN number:UN 1950Proper shipping name:AEROSOLSClass:2.1	UN/ID No.	:	UN 1950
Packing group:Not assigned by regulationLabels:Flammable GasPacking instruction (cargo:203aircraft):203Packing instruction (passenger aircraft):203IMDG-Code::UN number:UN 1950Proper shipping name:AEROSOLSClass:2.1		:	-
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Packing instruction (cargo : 203aircraft)Packing instruction (passen- ger aircraft)IMDG-CodeUN numberProper shipping name: AEROSOLSClass: 2.1		:	
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ger aircraft) IMDG-Code UN number : UN 1950 Proper shipping name : AEROSOLS Class : 2.1		÷	203
IMDG-CodeUN number:Proper shipping name:AEROSOLSClass:2.1		:	203
UN number:UN 1950Proper shipping name:AEROSOLSClass:2.1	ger aircraft)		
Proper shipping name : AEROSOLS Class : 2.1			
Class : 2.1		:	
	Proper shipping name	:	AEROSOLS
	Class	:	2.1
Packing group : Not assigned by regulation	Packing group	:	Not assigned by regulation

according to the Hazardous Products Regulations



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	s Code e pollutant	: 2.1 : F-D, S-U : no	
	sport in bulk accordin pplicable for product as	•	IARPOL 73/78 and the IBC Code
Dome	estic regulation		
	umber er shipping name	: UN 1950 : AEROSOLS	3
Label ERG	ng group	: 2.1 : Not assigne : 2.1 : 126 : no	d by regulation

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

Volatile organic compounds (VOC) content	CANADIAN ENVIRONMENTAL PROTECTION ACT, 1999 - Guidelines for VOC in Consumer Products VOC content: 54.75 % / 410.6 g/l
The ingredients of this produce DSL :	t are reported in the following inventories: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

SECTION 16. OTHER INFORMATION

Full text of other abbreviations						
ACGIH	: USA. ACGIH Threshold Limit Values (TLV)					
ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)					
CA AB OEL	: Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)					
CA BC OEL	: Canada. British Columbia OEL					
CA ON OEL	 Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act. 					
CA QC OEL	: Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants					
ACGIH / TWA ACGIH / STEL CA AB OEL / TWA	 8-hour, time-weighted average Short-term exposure limit 8-hour Occupational exposure limit 					

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CA BO CA BO CA OI CA QO	B OEL / STEL C OEL / TWA C OEL / STEL N OEL / TWA C OEL / TWAEV C OEL / STEV	: 8-ho : sho : Tim : Tim	our time weigl rt-term expos e-Weighted A	verage Limit (TWA) verage exposure value

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

Sources of key data used to compile the Material 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 Date format	:	11/18/2024 mm/dd/yyyy

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.

according to the Hazardous Products Regulations



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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.

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