

Versi 5.7	ion	Revision Date: 11/17/2022	-	0S Number: 787548-00006	Date of last issue: 06/07/2022 Date of first issue: 03/01/2010	
SEC	TION 1	. IDENTIFICATION				
l	Produc	t name	:	CU 1000, Copper	anti-seize paste, 284 g	
[Produc	t code	:	893.8003		
	Other n	neans of identification	:	No data available		
I	Manufa	acturer or supplier's o	deta	iils		
	Compa	ny name of supplier	:	Würth Canada Lir	nited	
	Addres	S	:	345 Hanlon Creek Blvd GUELPH, ON N1C 0A1		
-	Teleph	one	:	+1 (905) 564 622	5	
-	Telefax		:	+1 (905) 564 367	1	
I	Emerge	ency telephone	:	CHEMTREC (24/ Transport related CANUTEC (24/7) Urgences impliqu exposition: CHEMTREC (24/ Urgences liées au	: 1-613-996-6666 or * 666 (cell) ant un déversement, incendie, explosion ou 7): 1-800-424-9300	
					. 1-010-330-0000 00 000 (centilaire)	
I	E-mail	address	:	prodsafe@wurth.	ca	
-		mended use of the cl			ons on use	
	Recom	mended use	:	Lubricant		
I	Restric	tions on use	:	Not applicable		

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations	5
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Skin irritation	: Category 2

Serious eye damage	: Category 1
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GHS label elements



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Hazard pictograms							
Signa	l Word	: Danger					
Hazaı	d Statements		 H315 Causes skin irritation. H318 Causes serious eye damage. 				
Precautionary Statements			kin thoroughly after handling. rotective gloves, eye protection and face protec-				
		P305 + P351 water for seve and easy to d CENTER. P332 + P313	IF ON SKIN: Wash with plenty of water. + P338 + P310 IF IN EYES: Rinse cautiously with eral minutes. Remove contact lenses, if present o. Continue rinsing. Immediately call a POISON If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before				

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated heavy naphthenic	No data availa- ble	64742-52-5	>= 30 - < 60 *
Calcium hydroxide	Calcium dihy- droxide	1305-62-0	>= 10 - < 30 *
Distillates (petroleum), hydrotreated light naphthenic	No data availa- ble	64742-53-6	>= 10 - < 30 *
Copper metal powder	No data availa- ble	7440-50-8	>= 10 - < 30 *
Graphite	Graphitic carbon	7782-42-5	>= 5 - < 10 *
Quartz	Crystallized silicon dioxide	14808-60-7	>= 0.1 - < 1 *

Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

SAFETY DATA SHEET



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Gener	General advice		 In the case of accident or if you feel unwell, seek medica vice immediately. When symptoms persist or in all cases of doubt seek me advice. 			
lf inha	led	:	If inhaled, remove Get medical atter	e to fresh air. ntion if symptoms occur.		
In case	In case of skin contact		In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.			
In case	In case of eye contact		In case of contact, immediately flush eyes with plenty of wate for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.			
lf swal	If swallowed		If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.			
	mportant symptoms fects, both acute and ed	:	Causes skin irrita Causes serious e			
Protec	tion of first-aiders	: First Aid responders should pay attention to self-pr and use the recommended personal protective equ when the potential for exposure exists (see section		mmended personal protective equipment		
Notes	to physician	:	Treat symptomat	ically 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	:	Carbon oxides Metal oxides
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



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			so. Evacuate area.	
	cial protective equipment ire-fighters	:		e, wear self-contained breathing apparatus. tective equipment.
SECTIO	N 6. ACCIDENTAL RELE	ASI	EMEASURES	
tive	sonal precautions, protec- equipment and emer- cy procedures	:	Follow safe hand	tective equipment. ling advice (see section 7) and personal pro t recommendations (see section 8).
Env	ironmental precautions	:	Prevent spreadin oil barriers). Retain and dispo	eakage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
_	hods and materials for tainment and cleaning up	:	For large spills, p ment to keep mar pumped, store re Clean up remaining bent. Local or national sal of this materia ployed in the clear which regulations Sections 13 and	t absorbent material. rovide diking or other appropriate contain- terial from spreading. If diked material can covered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and disp al, as well as those materials and items em anup of releases. You will need to determin s are applicable. 15 of this SDS provide information regardin ational requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	Use only with adequate ventilation.
Advice on safe handling	Do not get on skin or clothing. Avoid breathing vapors. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	Keep in properly labeled containers.



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				Keep tightly close Store in accordan	ed. Ice with the particular national regulations.
Materials to avoid		:	Do not store with Strong oxidizing a Gases	the following product types: agents	
	Recom peratur	mended storage tem- e	:	8 - 21 °C	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Distillates (petroleum), hy- drotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m³	CA AB OEL
		STEL (Mist)	10 mg/m ³	CA AB OEL
		TWAEV (Mist)	5 mg/m³	CA QC OEL
		STEV (Mist)	10 mg/m ³	CA QC OEL
		TWA (Mist)	1 mg/m ³	CA BC OEL
		TWA (Inha- lable particu- late matter)	5 mg/m³	ACGIH
Calcium hydroxide	1305-62-0	TWA	5 mg/m³	CA AB OEL
		TWA	5 mg/m³	CA BC OEL
		TWAEV	5 mg/m³	CA QC OEL
		TWA	5 mg/m³	ACGIH
Distillates (petroleum), hy- drotreated light naphthenic	64742-53-6	TWA (Mist)	5 mg/m³	CA AB OEL
		STEL (Mist)	10 mg/m ³	CA AB OEL
		TWAEV (Mist)	5 mg/m³	CA QC OEL
		STEV (Mist)	10 mg/m ³	CA QC OEL
		TWA (Mist)	1 mg/m ³	CA BC OEL
		TWA (Inha- lable particu- late matter)	5 mg/m³	ACGIH
Copper metal powder	7440-50-8	TWA (Dust and mist)	1 mg/m³ (Copper)	CA AB OEL
		TWA (Fumes)	0.2 mg/m ³	CA AB OEL
		TWAEV (dusts and mists)	1 mg/m³ (Copper)	CA QC OEL
		TWAEV (Fumes)	0.2 mg/m ³ (Copper)	CA QC OEL
		TWA (Dust and mists)	1 mg/m ³ (Copper)	CA BC OEL
		TWA	0.2 mg/m ³	CA BC OEL

Ingredients with workplace control parameters



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			(Fumes) TWA (Dust and mist)	(Copper) 1 mg/m ³ (Copper)	ACGIH
			TWA (Fumes)	0.2 mg/m ³ (Copper)	ACGIH
Grap	hite	7782-42-5	TWA (Res- pirable)	2 mg/m ³	CA BC OEL
			TWAEV (respirable dust)	2 mg/m ³	CA QC OEL
			TWÁ (Res- pirable)	2 mg/m ³	CA AB OEL
			TWA (Respi- rable particu- late matter)	2 mg/m ³	ACGIH
Quart	Ż	14808-60-7	TWA (Res- pirable par- ticulates)	0.025 mg/m³	CA AB OEL
			TWA (Res- pirable frac- tion)	0.1 mg/m ³	CA ON OEL
			TWAEV (respirable dust)	0.1 mg/m ³	CA QC OEL
			TWA (Res- pirable par- ticulates)	0.025 mg/m³ (Silica)	CA AB OEL
			TWA (Respi- rable particu- late matter)	0.025 mg/m³ (Silica)	ACGIH

This substance(s) is not bioavailable and therefore does not contribute to a dust inhalation hazard.

Quartz

Engineering measures	:	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.
Personal protective equip	ment	
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the re- commended guidelines, use respiratory protection.
Filter type	:	Combined particulates and organic vapor type
Hand protection Material Break through time Glove thickness	: : :	Nitrile rubber > 480 min >= 0.4 mm
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. For special



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		micals of the	we recommend clarifying the resistance to che- aforementioned protective gloves with the glove . Wash hands before breaks and at the end of
Eye p	protection	Chemical res	owing personal protective equipment: istant goggles must be worn. re likely to occur, wear:
Skin and body protection		resistance da potential. Skin contact i	priate protective clothing based on chemical ta and an assessment of the local exposure must be avoided by using impervious protective es, aprons, boots, etc).
Hygie	ene measures	eye flushing s king place. When using c	o chemical is likely during typical use, provide systems and safety showers close to the wor- do not eat, drink or smoke. ninated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	paste
Color	:	copper
Odor	:	mild
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	> 260 °C
Flash point	:	> 93 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Ignitable (see flash point)
Upper explosion limit / Upper flammability limit	:	No data available

SAFETY DATA SHEET



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		explosion limit / Lower bility limit	:	No data available	9
	Vapor p	pressure	:	< 0.6 mbar	
	Relative vapor density		:	No data available	
	Relativ	e density	:	No data available)
	Density	,	:	1.3 g/cm ³ (20 °C)	
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Autoigr	nition temperature	:	No data available)
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty osity, kinematic	:	> 20.5 mm²/s (40	0 °C)
	Explosi	ve properties	:	Not explosive	
	Oxidizii Particle	ng properties size	:	The substance of Not applicable	r mixture is not classified as oxidizing.

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 explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	:	None known.
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



rsion ,	Revision Date: 11/17/2022	SDS Number: 10787548-000	Date of last issue: 06/07/2022 Date of first issue: 03/01/2010
Inges Eye c	tion contact		
Acute	e toxicity		
Not c	lassified based on ava	ilable information	
Com	oonents:		
Distil	lates (petroleum), hy	drotreated heav	v naphthenic:
	e oral toxicity	: LD50 (Rat Method: O): > 5,000 mg/kg ECD Test Guideline 401 Based on data from similar materials
Acute	inhalation toxicity	Method: O Assessme tion toxicity	ime: 4 h sphere: dust/mist ECD Test Guideline 403 nt: The substance or mixture has no acute inhala-
Acute	e dermal toxicity	Method: O	bit): > 5,000 mg/kg ECD Test Guideline 402 Based on data from similar materials
Calci	um hydroxide:		
	e oral toxicity	Method: O): > 2,000 mg/kg ECD Test Guideline 425 nt: The substance or mixture has no acute oral to:
Acute	inhalation toxicity	Method: O	
Acute	e dermal toxicity	Method: O Assessme toxicity	bit): > 2,500 mg/kg ECD Test Guideline 402 nt: The substance or mixture has no acute derma Based on data from similar materials
Distil	lates (petroleum), hy	drotreated light	naphthenic:
	e oral toxicity	: LD50 (Rat): > 5,000 mg/kg ECD Test Guideline 401
Acute	inhalation toxicity	Method: O	time: 4 h sphere: dust/mist ECD Test Guideline 403 nt: The substance or mixture has no acute inhala-

SAFETY DATA SHEET



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sion	Revision Date: 11/17/2022	SDS Number:Date of last issue: 06/07/202210787548-00006Date of first issue: 03/01/2010
Acute	dermal toxicity	 LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute derma toxicity
Сорр	er metal powder:	
Acute	oral toxicity	 LD50 (Rat): > 2,500 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral to icity
Acute	inhalation toxicity	 LC50 (Rat): > 5.11 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 436
Acute	dermal toxicity	 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity
Graph	nite:	
Acute	oral toxicity	 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral to icity
Acute	inhalation toxicity	: LC50 (Rat): > 2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Quart	z:	
Acute	oral toxicity	: LD50 (Rat): > 5,000 mg/kg
-	corrosion/irritation	
<u>Comp</u>	onents:	
		vdrotreated heavy naphthenic:
Specie Result		: Rabbit : No skin irritation
Result Rema		 Based on data from similar materials
Calciu	ım hydroxide:	
Specie	•	: Rabbit
Metho		: OECD Test Guideline 404
Result		: Skin irritation
Rema	rks	: Based on data from similar materials

Distillates (petroleum), hydrotreated light naphthenic:



Species Result: Rabbit : No skin irritationCopper metal powder:Species Method Result: Rabbit : OECD Test Guideline 404 : No skin irritationGraphite:Species Method Result: Rabbit : OECD Test Guideline 404 : No skin irritationGraphite:Species Method Result: Rabbit : OECD Test Guideline 404 : No skin irritation	
Result : No skin irritation Copper metal powder:	
Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Graphite: . . Species : Rabbit Method : OECD Test Guideline 404 OECD Test Guideline 404 : .	
Method : OECD Test Guideline 404 Result : No skin irritation Graphite:	
Result : No skin irritation Graphite: Species : Rabbit Method : OECD Test Guideline 404	
Graphite: Species : Rabbit Method : OECD Test Guideline 404	
Species:RabbitMethod:OECD Test Guideline 404	
Method : OECD Test Guideline 404	
Method : OECD Test Guideline 404	
Result : No skin irritation	
Serious eye damage/eye irritation	
Causes serious eye damage.	
Components:	
Distillates (petroleum), hydrotreated heavy naphthenic:	
Species : Rabbit Result : No eve irritation	
Result : No eye irritation Remarks : Based on data from similar materials	
Calcium hydroxide:	
Species : Rabbit	
Result : Irreversible effects on the eye	
Method : OECD Test Guideline 405	
Distillates (petroleum), hydrotreated light naphthenic:	
Species : Rabbit	
Result : No eye irritation	
Copper metal powder:	
Species : Rabbit	
Result : No eye irritation	
Method : OECD Test Guideline 405	
Graphite:	
Species : Rabbit	
Result : No eye irritation	
Method : OECD Test Guideline 405	
Respiratory or skin sensitization	
Skin sensitization	
Not classified based on available information.	
Respiratory sensitization	
Not classified based on available information.	



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<u>Comp</u>	onents:		
Distill	ates (petroleum), h	drotreated heavy nap	hthenic:
Test T		: Buehler Test	
	s of exposure	: Skin contact	
Specie	•	: Guinea pig	
Result		: negative	
Rema	rks		rom similar materials
Calciu	ım hydroxide:		
Test T	-	: Local lymph noc	le assav (LLNA)
	s of exposure	: Skin contact	
Specie		: Mouse	
Metho		: OECD Test Gui	deline 129
Result		: negative	
Rema			rom similar materials
Nema		. Dased on data I	
		vdrotreated light naph	thenic:
Test T		: Buehler Test	
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Metho	d	: OECD Test Gui	deline 406
Result	t	: negative	
Сорр	er metal powder:		
Test T	VDe	: Maximization Te	est
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Metho		: OECD Test Gui	deline 106
Result		: negative	
		C C	
Graph			
Test T		: Local lymph noc	ie assay (LLINA)
	s of exposure	: Skin contact	
Specie		: Mouse	
Result	L	: negative	
Germ	cell mutagenicity		
	assified based on av	ailable information.	
	oonents:		
		vdrotreated heavy nap	
Genot	oxicity in vitro		erial reverse mutation assay (AMES) Test Guideline 471
Genot	oxicity in vivo	cytogenetic ass	
		Species: Mouse	
			te: Intraperitoneal injection Test Guideline 474



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		Result: negative Remarks: Based on data from similar materials
Calci	um hydroxide:	
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
Distil	lates (petroleum), h	ydrotreated light naphthenic:
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 476 Result: negative
Geno	toxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474
Сорр	er metal powder:	
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
Geno	toxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Method: Directive 67/548/EEC, Annex V, B.12. Result: negative Remarks: Based on data from similar materials
Grap	hite:	
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
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Carci	nogenicity		
	assified based on availa	able information.	
Com	oonents:		
-	lates (petroleum), hydi	retreated because non	hthonio
Speci		: Mouse	inthenic.
•	cation Route	: Skin contact	
	sure time	: 78 weeks	
Metho		: OECD Test Gui	deline 451
Resul		: negative	
Calci	um hydroxide:		
Speci	-	: Rat	
	cation Route	: Ingestion	
	sure time	: 104 weeks	
Resul		: negative	
Rema	arks		rom similar materials
Distil	lates (petroleum), hydi	rotreated light naph	thenic:
Speci		: Mouse	
	cation Route	: Skin contact	
	sure time	: 78 weeks	
Resul		: negative	
Quart			
Speci		: Humans	
	cation Route	: inhalation (dust/	/mist/fume)
Resul		: positive	
Rema	arks		 s) is not bioavailable and therefore does not lust inhalation hazard.
Carcir	nogenicity - Assess-	: Positive evidend	ce from human epidemiological studies (inha
ment		tion)	
Repro	oductive toxicity		
-	assified based on availa	able information.	
<u>Comp</u>	oonents:		
Calci	um hydroxide:		
Effect	s on fertility	reproduction/de Species: Rat Application Rou	Test Guideline 422
Effect	s on fetal development	: Test Type: Emb Species: Rat Application Rou	ryo-fetal development



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		Result: negative Remarks: Base	e d on data from similar materials
Distill	ates (petroleum), hydr	otreated light naph	thenic:
Effects	s on fertility	: Test Type: Rep test Species: Rat Application Rou Result: negative	
Effects	s on fetal development	Species: Rat	oryo-fetal development ite: Skin contact e
Сорре	er metal powder:		
	s on fertility	Species: Rat Application Rot	Test Guideline 416
Effects	s on fetal development	: Test Type: Emb Species: Rabbi Application Rou Result: negative	ite: Ingestion
Graph	nite:		
-	s on fertility	reproduction/de Species: Rat Application Rou	Test Guideline 422
Effects	s on fetal development	reproduction/de Species: Rat Application Rou	Test Guideline 422
	-single exposure assified based on availa	ble information.	
	onents:		
Calciu	ım hydroxide:		
	sment	: May cause resp	piratory irritation.
0 T 0T	-repeated exposure		



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<u>Comp</u>	onents:		
Copp	er metal powder:		
	s of exposure	: inhalation (dust/	nist/fume)
	sment		alth effects observed in animals at concentr
Quart	z:		
Route	s of exposure	: inhalation (dust/	nist/fume)
Targe Asses	t Organs sment		ce significant health effects in animals at cor 02 mg/l/6h/d or less.
Repea	ated dose toxicity		
Comp	onents:		
Distill	ates (petroleum), h	ydrotreated heavy nap	hthenic:
Specie		: Rat	
NOAE	L ation Route	: > 0.98 mg/l : inhalation (dust/i	mist/fume)
	ure time	: 28 Days	nistrane)
Rema			rom similar materials
Calciu	ım hydroxide:		
Specie		: Mouse	
NOAE		: >= 1,300 mg/kg	
	ation Route	: Ingestion : 28 Days	
Rema	ure time rks		om similar materials
Specie		: Rat	
NOAE		: >= 0.107 mg/l	
	ation Route ure time	: inhalation (dust/ : 28 Days	mist/fume)
Metho		: OECD Test Guid	deline 412
Distill	ates (petroleum), h	ydrotreated light napht	henic:
Specie	es	: Rabbit	
NOAE		: 1,000 mg/kg	
	ation Route	: Skin contact	
	ure time d	: 4 Weeks	Joline 110
Metho	u .	: OECD Test Guid	10 III IE 4 IU
	er metal powder:		
Specie		: Rat	
	L	: >= 2 mg/m ³	
NOAE	ation Route	: inhalation (dust/	mint/fuma)



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Quart: Specie LOAEI Applica Remar	es L ation Route		nist/fume) s) is not bioavailable and therefore does not ust inhalation hazard.

Aspiration toxicity

Not classified based on available information.

Components:

Distillates (petroleum), hydrotreated light naphthenic:

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

Ecotoxicity

Components:

Distillates (petroleum), hydrotreated heavy naphthenic:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Remarks: Based on data from similar materials
Toxicity to microorganisms	:	NOEC: > 1.93 mg/l Exposure time: 10 min Remarks: Based on data from similar materials
Calcium hydroxide:		
Toxicity to fish	:	LC50 (Gasterosteus aculeatus (threespine stickleback)): 457 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Crangon crangon (shrimp)): 158 mg/l Exposure time: 96 h



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	Toxicity to algae/aquatic plants		ErC50 (Pseudokir 184.57 mg/l Exposure time: 72 Method: OECD Te	
			EC10 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC: 32 mg/l Exposure time: 14	ł d
Toxic	ity to microorganisms	:	EC50: 300.4 mg/l Exposure time: 3 Method: OECD Te	
Distil	llates (petroleum), hydr	otro	eated light nanhth	enic:
	tity to fish	:		s promelas (fathead minnow)): > 100 mg/l
	ity to daphnia and other tic invertebrates	:	Exposure time: 48	agna (Water flea)): > 10,000 mg/l 3 h Vater Accommodated Fraction
Toxic plants	ity to algae/aquatic s	:	100 mg/l Exposure time: 72	rchneriella subcapitata (green algae)): >= 2 h Vater Accommodated Fraction
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 10 mg/l I d
Toxic	ity to microorganisms	:	NOEC (Photobac Exposure time: 4	terium phosphoreum): > 2.17 mg/l d
Copr	per metal powder:			
	hity to fish	:	LC50: 8.1 µg/l Exposure time: 96	3 h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.792 mg/l } h
Toxic plants	tity to algae/aquatic s	:	EC50 (Chlorella v Exposure time: 72 Method: OECD Te	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Oncorhyn	chus mykiss (rainbow trout)): 1 μg/l



Toxicity				
		:	Exposure time: 96	ater Accommodated Fraction
aquatic	/ to daphnia and other invertebrates	:	Exposure time: 48	Ater Accommodated Fraction
Toxicity plants	/ to algae/aquatic	:	mg/l Exposure time: 72	ater Accommodated Fraction
			100 mg/l Exposure time: 72	ater Accommodated Fraction
Toxicity	/ to microorganisms	:	EC50: > 1,012.5 n Exposure time: 3 h Method: OECD Te	٦ [¯]
Quartz	:			
Ecotox	cicology Assessment			
	aquatic toxicity	:	No toxicity at the li	imit of solubility.
Chronic	c aquatic toxicity	:	No toxicity at the li	imit of solubility.
Persist	tence and degradabili	ty		
<u>Compc</u>	onents:			
Distilla	ites (petroleum), hydr	otr	eated heavy napht	henic:
	radability	:	Result: Not readily Biodegradation: 2 Exposure time: 28	v biodegradable. 2 - 4 %
Distilla	ites (petroleum), hydr	otro	eated light naphth	enic:
	radability	:	Result: Not readily Biodegradation: 2 Exposure time: 28	v biodegradable. 2 - 8 %

No data available



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Mobil	lity in soil		
No da	ata available		
Other	r adverse effects		
CTION	ata available 13. DISPOSAL CONS	DERATIONS	
CTION		SIDERATIONS	
CTION Dispo	13. DISPOSAL CONS		cordance with local regulations.
CTION Dispo Waste	13. DISPOSAL CONS	: Dispose of in ac	Ū.
CTION Dispo Waste	13. DISPOSAL CONS	: Dispose of in ac : Empty containe handling site for	cordance with local regulations. 's should be taken to an approved waste recycling or disposal. specified: Dispose of as unused product.

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(Copper metal powder)
Class	:	9
Packing group	:	III
Labels	:	9
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Copper metal powder)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
1 11 5		N.O.S.
		(Copper metal powder)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes
'		

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

Not applicable for product as supplied.



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Dome	stic regulation			
TDG UN nu Proper	mber [.] shipping name	:	UN 3082 ENVIRONMENT/ N.O.S. (Copper metal po	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Labels ERG C	Class Packing group Labels ERG Code Marine pollutant		9 III 9 171 yes(Copper meta	l powder)

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	CANADIAN ENVIRONMENTAL PROTECTION ACT, 1999 -
(VOC) content	Guidelines for VOC in Consumer Products
	VOC content: 0 %

The ingredients of this product are reported in the following inventories:

DSL: 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)			
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	:	8-hour, time-weighted average			
CA AB OEL / TWA	:	8-hour Occupational exposure limit			
CA AB OEL / STEL	:	15-minute occupational exposure limit			
CA BC OEL / TWA	:	8-hour time weighted average			
CA ON OEL / TWA		Time-Weighted Average Limit (TWA)			
CA QC OEL / TWAEV	:	Time-weighted average exposure value			
CA QC OEL / STEV	:	Short-term 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 -



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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	:	11/17/2022 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. 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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