

Version 1.8	Revision Date: 10/21/2021	-	DS Number: 8993-00005	Date of last issue: 11/12/2020 Date of first issue: 12/27/2016	
SECTION	1. IDENTIFICATION				
Produ	uct name	:	CU 1000, Copper	r anti-seize paste, 284 g	
Produ	uct code	:	890.920284		
Other	means of identification	:	No data available		
Manı	facturer or supplier's	deta	ails		
Comp	pany name of supplier	:	Würth Canada Li	mited	
Addre	ess	:	345 Hanlon Creek Blvd GUELPH, ON N1C 0A1		
Telep	hone	:	+1 (905) 564 6225		
Telefa	ax	:	+1 (905) 564 3671		
Emer	Emergency telephone		CHEMTREC (24/ Transport related	olving a spill, fire, explosion or exposure: 7): 1-800-424-9300 emergencies: : 1-613-996-6666 or * 666 (cell)	
			exposition: CHEMTREC (24/ Urgences liées au	ant un déversement, incendie, explosion ou 7): 1-800-424-9300 u transport: : 1-613-996-6666 ou * 666 (cellulaire)	
E-ma	il address	:	prodsafe@wurth.	са	
Reco	mmended use of the c	her	nical and restriction	ons on use	
Reco	mmended use	:	Anti-friction agent	and lubricant	
_					

Restrictions on use : Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations
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Serious eye damage : Category 1

GHS label elements

Hazard pictograms





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Signal Word Hazard Statements		:	Danger H318 Causes serious eye damage.				
Precautionary Statements		:	Prevention: P280 Wear eye protection and face protection.				
			water for several	338 + P310 IF IN EYES: Rinse cautiously with minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON			
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 paraffinic		64742-54-7	>= 60 - < 80 *
Distillates (petroleum), hydrotreated heavy naphthenic	No data availa- ble	64742-52-5	>= 30 - < 60 *
Graphite	Graphitic carbon	7782-42-5	>= 10 - < 30 *
Copper metal powder	No data availa- ble	7440-50-8	>= 10 - < 30 *
12-Hydroxy lithium stearate	Octadecanoic acid, 12- hydroxy-, lithium salt (1:1)	7620-77-1	>= 5 - < 10 *
Calcium hydroxide	Calcium dihy- droxide	1305-62-0	>= 1 - < 5 *
Quartz	Crystallized silicon dioxide	14808-60-7	>= 1 - < 5 *

* 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 advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	: If inhaled, remove to fresh air.

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			Get medical atter	ntion if symptoms occur.	
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 for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.		
lf sw	allowed	:	Get medical atter	NOT induce vomiting. Ition if symptoms occur. oughly with water.	
	important symptoms effects, both acute and /ed	:	Causes serious e	ye damage.	
Prote	ection of first-aiders	:	and use the recor	ers should pay attention to self-protection, mmended personal protective equipment al for exposure exists (see section 8).	
Note	s to physician	:	Treat symptomati	cally 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	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Metal oxides Carbon 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 so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.



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SECTION	6. ACCIDENTAL RELE	AS	E MEASURES	
tive e	onal precautions, protec- quipment and emer- y procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
Envir	onmental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage 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
	ods and materials for inment and cleaning up	:	For large spills, pr ment to keep mat pumped, store red Clean up remaining bent. Local or national sal of this materia ployed in the clean which regulations Sections 13 and 1	t absorbent material. rovide diking or other appropriate contain- erial from spreading. If diked material can be covered material in appropriate container. ng 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	:	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. 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. Keep tightly closed. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents
Recommended storage tem- perature	:	15.6 - 32.2 °C



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Distillates (petroleum), hy- drotreated heavy paraffinic	64742-54-7	TWA (Mist)	5 mg/m³	CA AB OEL
		STEL (Mist)	10 mg/m ³	CA AB OEL
		TWAEV	5 mg/m ³	CA QC OEL
		(Mist)		
		STEV (Mist)	10 mg/m ³	CA QC OEL
		TWA (Mist)	1 mg/m ³	CA BC OEL
Distillates (petroleum), hy- drotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m ³	CA AB OEL
		STEL (Mist)	10 mg/m ³	CA AB OEL
		TWAEV	5 mg/m ³	CA QC OEL
		(Mist)	- 0	
		STEV (Mist)	10 mg/m ³	CA QC OEL
		TWA (Mist)	1 mg/m ³	CA BC OEL
		TWA (Inha-	5 mg/m ³	ACGIH
		lable particu-	o	
		late matter)		
Graphite	7782-42-5	TWA (Res-	2 mg/m ³	CA BC OEL
••••P····•		pirable)		
		TWAEV	2 mg/m ³	CA QC OEL
		(respirable		
		dust)		
		TWA (Res-	2 mg/m ³	CA AB OEL
		pirable)	5	
		TWA (Respi-	2 mg/m ³	ACGIH
		rable particu-	5	
		late matter)		
Copper metal powder	7440-50-8	TWA (Dust	1 mg/m ³	CA AB OEL
		and mist)	(Copper)	
		TWA	0.2 mg/m ³	CA AB OEL
		(Fumes)	Ŭ	
		TWAEV	1 mg/m ³	CA QC OEL
		(dusts and	(Copper)	
		mists)		
		TWAEV	0.2 mg/m ³	CA QC OEL
		(Fumes)	(Copper)	
		TWA (Dust	1 mg/m ³	CA BC OEL
		and mists)	(Copper)	
		TWA	0.2 mg/m ³	CA BC OEL
		(Fumes)	(Copper)	
		TWA (Dust	1 mg/m ³	ACGIH
		and mist)	(Copper)	
		TWA	0.2 mg/m ³	ACGIH
		(Fumes)	(Copper)	
12-Hydroxy lithium stearate	7620-77-1	TWA	10 mg/m ³	CA AB OEL



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			TWA TWAEV	10 mg/m ³ 10 mg/m ³	CA BC OEL CA QC OEL
			TWA (Inha- lable particu- late matter)	10 mg/m³	ACGIH
			TWA (Respi- rable particu- late matter)	3 mg/m³	ACGIH
Calciu	um 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
Quart	tz	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

These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Quartz

Engineering measures	:	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.	
Personal protective equip	nent		
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	:	Natural Rubber	
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. For special applications, we recommend clarifying the resistance to che- micals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the pro- duct. Change gloves often!	



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Eye p	rotection	Chemical resist	ring personal protective equipment: ant goggles must be worn. likely to occur, wear:	
Skin a	and body protection	 Select appropriate protective clothing based on chemic resistance data and an assessment of the local exposi- potential. Skin contact must be avoided by using impervious pro- clothing (gloves, aprons, boots, etc). 		
Hygie	ne measures	eye flushing sys king place. When using do	hemical is likely during typical use, provide stems and safety showers close to the wor- not eat, drink or smoke. ated 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	:	> 316 °C
Flash point	:	210 °C
Flash point Evaporation rate	:	210 °C No data available
	•	
Evaporation rate	•	No data available
Evaporation rate Flammability (solid, gas)	:	No data available Not applicable No data available

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Va	por pressure	: < 5 mmHg (-1.1 °	C)		
Re	lative vapor density	: No data available			
Re	lative density	: 1.1			
	lubility(ies) Water solubility	: insoluble			
	rtition coefficient: n- anol/water	: Not applicable			
Aut	toignition temperature	: No data available			
De	composition temperature	: No data available			
	cosity Viscosity, kinematic	: No data available			
Exp	olosive properties	: Not explosive			
	idizing properties		mixture is not classified as oxidizing.		
Fa		: 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	:	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 Ingestion Eye contact

Acute toxicity

Not classified based on available information.



rsion	Revision Date: 10/21/2021	SDS Nun 418993-0		Date of last issue: 11/12/2020 Date of first issue: 12/27/2016		
Comp	oonents:					
Distill	lates (petroleum), h	ydrotreated h	neavy para	ffinic:		
Acute	oral toxicity	Metho		00 mg/kg est Guideline 401 on data from similar materials		
Acute inhalation toxicity		Expos Test a Metho Asses tion to	 LC50 (Rat): > 5.53 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhi tion toxicity Remarks: Based on data from similar materials 			
Acute	dermal toxicity	Metho	od: OEĆD T	5,000 mg/kg est Guideline 402 on data from similar materials		
Distill	lates (petroleum), h	ydrotreated h	neavy napł	thenic:		
Acute	oral toxicity	Metho		00 mg/kg est Guideline 401 on data from similar materials		
Acute	inhalation toxicity	Expos Test a Metho Asses tion to	ssment: The pxicity	h		
Acute	dermal toxicity	Metho	d: OECD T	5,000 mg/kg est Guideline 402 on data from similar materials		
Graph	nite:					
-	oral toxicity	Metho		000 mg/kg est Guideline 423 substance or mixture has no acute oral tox-		
Acute	inhalation toxicity	Expos Test a	(Rat): > 2 r sure time: 4 atmosphere od: OECD T	h		
Conn	er metal powder:					
	oral toxicity	Metho		i00 mg/kg est Guideline 423 substance or mixture has no acute oral tox-		

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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 d toxicity 	erma
12-Hv	droxy lithium steara	e:	
-	oral toxicity	: LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute o icity	ral to
Calciu	um hydroxide:		
Acute	oral toxicity	 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 425 Assessment: The substance or mixture has no acute o icity 	ral to
Acute	inhalation toxicity	 (Rat): > 6.04 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 436 Remarks: Based on data from similar materials 	
Acute	dermal toxicity	 LD50 (Rabbit): > 2,500 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute d toxicity Remarks: Based on data from similar materials 	erma
Quart	z:		
Acute	oral toxicity	: LD50 (Rat): > 5,000 mg/kg	
Not cla	corrosion/irritation assified based on ava ponents:	lable information.	
Distill	ates (petroleum), hy	drotreated heavy paraffinic:	
Specie		: Rabbit	
Result Rema		 No skin irritation Based on data from similar materials 	
Distill	ates (petroleum), hy	drotreated heavy naphthenic:	
Specie		: Rabbit	
Result		 No skin irritation Based on data from similar materials 	



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Grapl	nite:		
Speci		: Rabbit	
Metho		: OECD Test G	uideline 404
Resul		: No skin irritati	
Resul	·	. No skir irritati	
Сорр	er metal powder:		
Speci	es	: Rabbit	
Method		: OECD Test G	
Resul	t	: No skin irritati	on
12-Hy	droxy lithium stear	ate:	
Speci	-	: Rabbit	
Resul		: No skin irritati	on
Rema			a from similar materials
Calci	um hydroxide:		
	-	· Dahhit	
Speci Metho		: Rabbit : OECD Test G	uideline 404
Resul		: Skin irritation	
Rema	-		a from similar materials
Cause	us eye damage/eye es serious eye dama		
Cause <u>Comp</u>	es serious eye dama ponents:	ge.	
Cause <u>Comp</u> Distil	es serious eye dama ponents: lates (petroleum), h	ge. Nydrotreated heavy pa	araffinic:
Cause Comp Distil Speci	es serious eye dama ponents: lates (petroleum), h es	ge. ydrotreated heavy p a : Rabbit	
Cause Comp Distill Speci Resul	es serious eye dama ponents: lates (petroleum), h es t	ge. ydrotreated heavy p a : Rabbit : No eye irritatio	on
Cause Comp Distill Speci Resul Metho	es serious eye dama ponents: lates (petroleum), h es t dd	ge. bydrotreated heavy p a : Rabbit : No eye irritatio : OECD Test G	on uideline 405
Cause Comp Distill Speci Resul	es serious eye dama ponents: lates (petroleum), h es t dd	ge. bydrotreated heavy p a : Rabbit : No eye irritatio : OECD Test G	on
Cause Comp Distil Speci Resul Metho Rema	es serious eye dama ponents: lates (petroleum), h es t od urks	ge. bydrotreated heavy p a : Rabbit : No eye irritatio : OECD Test G	on uideline 405 a from similar materials
Cause Comp Distill Speci Resul Metho Rema Distill Speci	es serious eye dama <u>ponents:</u> lates (petroleum), h es t d urks lates (petroleum), h es	ge. ydrotreated heavy pa : Rabbit : No eye irritatio : OECD Test G : Based on data ydrotreated heavy na : Rabbit	on uideline 405 a from similar materials aphthenic:
Cause Comp Distill Speci Resul Metho Rema Distill Speci Resul	es serious eye dama <u>ponents:</u> lates (petroleum), h es t d urks lates (petroleum), h es t	ge. ydrotreated heavy pa : Rabbit : No eye irritatio : OECD Test G : Based on data ydrotreated heavy na : Rabbit : No eye irritatio	on uideline 405 a from similar materials aphthenic: on
Cause Comp Distill Speci Resul Metho Rema Distill Speci	es serious eye dama <u>ponents:</u> lates (petroleum), h es t d urks lates (petroleum), h es t	ge. ydrotreated heavy pa : Rabbit : No eye irritatio : OECD Test G : Based on data ydrotreated heavy na : Rabbit : No eye irritatio	on uideline 405 a from similar materials aphthenic:
Cause Comp Distill Speci Resul Metho Rema Distill Speci Resul	es serious eye dama <u>ponents:</u> lates (petroleum), h es t od urks lates (petroleum), h es t t	ge. ydrotreated heavy pa : Rabbit : No eye irritatio : OECD Test G : Based on data ydrotreated heavy na : Rabbit : No eye irritatio	on uideline 405 a from similar materials aphthenic: on
Cause <u>Comp</u> Distill Speci Resul Metho Rema Distill Speci Resul Resul Resul Resul	es serious eye dama <u>ponents:</u> lates (petroleum), h es t od urks lates (petroleum), h es t urks	ge. ydrotreated heavy pa : Rabbit : No eye irritatio : OECD Test G : Based on data ydrotreated heavy na : Rabbit : No eye irritatio	on uideline 405 a from similar materials aphthenic: on
Cause Comp Distil Speci Resul Metho Rema Distil Speci Resul Rema Grapl	es serious eye dama <u>ponents:</u> lates (petroleum), h es t od urks lates (petroleum), h es t t urks hite: es	ge. ydrotreated heavy pa : Rabbit : No eye irritatio : OECD Test G : Based on data ydrotreated heavy na : Rabbit : No eye irritatio : Based on data	on uideline 405 a from similar materials aphthenic: on a from similar materials
Cause Comp Distil Speci Resul Metho Rema Distil Speci Resul Rema Grapl Speci	es serious eye dama <u>ponents:</u> lates (petroleum), h es t od urks lates (petroleum), h es t urks hite: es	ge. ydrotreated heavy pa Rabbit No eye irritatio OECD Test G Based on data ydrotreated heavy na Rabbit No eye irritatio Based on data Rabbit Rabbit Rabbit Rabbit Rabbit	on uideline 405 a from similar materials aphthenic: on a from similar materials
Cause Comp Distil Speci Resul Metho Rema Distil Resul Rema Grapl Speci Resul Metho	es serious eye dama <u>ponents:</u> lates (petroleum), h es t od urks lates (petroleum), h es t urks hite: es t od	ge. ydrotreated heavy pa : Rabbit : No eye irritatio : OECD Test G : Based on data ydrotreated heavy na : Rabbit : No eye irritatio : Based on data : Rabbit : No eye irritatio : Rabbit : No eye irritatio	on uideline 405 a from similar materials aphthenic: on a from similar materials
Cause Comp Distill Speci Resul Metho Rema Distill Speci Resul Rema Grapl Speci Resul Metho Copp	es serious eye dama <u>ponents:</u> lates (petroleum), h es t od urks lates (petroleum), h es t urks hite: es t od er metal powder:	ge. ydrotreated heavy pa : Rabbit : No eye irritatio : OECD Test G : Based on data ydrotreated heavy na : Rabbit : No eye irritatio : Based on data : Rabbit : No eye irritatio : OECD Test G	on uideline 405 a from similar materials aphthenic: on a from similar materials
Cause Comp Distill Speci Resul Metho Rema Distill Speci Resul Rema Grapl Speci Resul Metho Copp Speci	es serious eye dama <u>ponents:</u> lates (petroleum), h es t od urks lates (petroleum), h es t urks hite: es t od er metal powder: es	ge. ydrotreated heavy pa Rabbit No eye irritatio OECD Test G Based on data ydrotreated heavy na Rabbit No eye irritatio Based on data Rabbit No eye irritatio CECD Test G Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit	on uideline 405 a from similar materials aphthenic: on a from similar materials
Cause Comp Distill Speci Resul Metho Rema Distill Speci Resul Rema Grapl Speci Resul Metho Speci Resul Metho	es serious eye dama <u>ponents:</u> lates (petroleum), h es t od urks lates (petroleum), h es t urks hite: es t od er metal powder: es t	ge. ydrotreated heavy pa : Rabbit : No eye irritatio : OECD Test G : Based on data ydrotreated heavy na : Rabbit : No eye irritatio : Based on data : Rabbit : No eye irritatio : OECD Test G : Rabbit : No eye irritatio : OECD Test G	on uideline 405 a from similar materials aphthenic: on a from similar materials on uideline 405
Cause Comp Distill Speci Resul Metho Rema Distill Speci Resul Rema Grapl Speci Resul Metho Copp Speci	es serious eye dama <u>ponents:</u> lates (petroleum), h es t od urks lates (petroleum), h es t urks hite: es t od er metal powder: es t	ge. ydrotreated heavy pa Rabbit No eye irritatio OECD Test G Based on data ydrotreated heavy na Rabbit No eye irritatio Based on data Rabbit No eye irritatio CECD Test G Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit	on uideline 405 a from similar materials aphthenic: on a from similar materials on uideline 405
Cause Comp Distill Speci Resul Metho Rema Distill Speci Resul Metho Speci Resul Metho	es serious eye dama <u>ponents:</u> lates (petroleum), h es t od urks lates (petroleum), h es t urks hite: es t od er metal powder: es t	ge. ydrotreated heavy pa : Rabbit : No eye irritatio : OECD Test G : Based on data ydrotreated heavy na : Rabbit : No eye irritatio : Based on data : Rabbit : No eye irritatio : OECD Test G : Rabbit : No eye irritatio : OECD Test G	on uideline 405 a from similar materials aphthenic: on a from similar materials on uideline 405



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Result		: No eye irritatio	n			
Remark	KS		from similar materials			
Calciu	m hydroxide:					
Species	S	: Rabbit				
Result		: Irreversible effects on the eye				
Method	1	: OECD Test Gu	ideline 405			
Respira	atory or skin sensi	tization				
Skin se	ensitization					
Not cla	ssified based on ava	ailable information.				
Respir	atory sensitization					
Not cla	ssified based on ava	ailable information.				
<u>Compo</u>	onents:					
Distilla	tes (petroleum), hy	drotreated heavy pa	raffinic:			
Test Ty	•	: Buehler Test				
	of exposure	: Skin contact				
Species		: Guinea pig	ideline 100			
Method	1	: OECD Test Gu	แนยแก่ยี่ 406			
Result Remark	(6	: negative : Based on data	from similar materials			
Test Ty Routes Species Result Remark	of exposure s	: Buehler Test : Skin contact : Guinea pig : negative : Based on data	from similar materials			
Keman		. Dasca on data				
Graphi						
Test Ty Routes	/pe of exposure	: Local lymph no : Skin contact	ode assay (LLNA)			
Species		: Mouse				
Result	<u>.</u>	: negative				
Coppe	r metal powder:					
Test Ty	-	: Maximization T	est			
	of exposure	: Skin contact				
Species	S	: Guinea pig				
Method	l	: OECD Test Gu	iideline 406			
Result		: negative				
12-Hyd	Iroxy lithium steara	ate:				
Test Ty		: Local lymph no	ode assay (LLNA)			
	of exposure	: Skin contact				
Species		: Mouse				
Method	1	: OECD Test Gu	liaeline 429			
		10/0				



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Resul	t	: negative	
Calciu	um hydroxide:		
Test T	Гуре	: Local lymph i	node assay (LLNA)
Route	s of exposure	: Skin contact	
Speci		: Mouse	
Metho		: OECD Test C	Buideline 429
Resul		: negative	a from similar materials
Rema	IIKS	: Based on dat	a from similar materials
	cell mutagenicity assified based on av	ailable information	
	onents:		
		ydrotreated heavy p	araffinic:
	toxicity in vitro		acterial reverse mutation assay (AMES)
Geno			D Test Guideline 471
		Result: negat	
Genot	toxicity in vivo		ammalian erythrocyte micronucleus test (in vivo
		cytogenetic a	
		Species: Mou	
			oute: Intraperitoneal injection D Test Guideline 474
		Result: negat	
			sed on data from similar materials
Distill	lates (petroleum), h	vdrotreated heavy n	aphthenic:
		ydrotreated heavy n : Test Type: Ba	-
	lates (petroleum), h toxicity in vitro	: Test Type: Ba	aphthenic: acterial reverse mutation assay (AMES) D Test Guideline 471
		: Test Type: Ba	acterial reverse mutation assay (AMES) D Test Guideline 471
Genot		: Test Type: Ba Method: OEC Result: negat : Test Type: M	acterial reverse mutation assay (AMES) D Test Guideline 471 ive ammalian erythrocyte micronucleus test (in vivo
Genot	toxicity in vitro	: Test Type: B Method: OEC Result: negat : Test Type: M cytogenetic a	acterial reverse mutation assay (AMES) D Test Guideline 471 ive ammalian erythrocyte micronucleus test (in vive ssay)
Genot	toxicity in vitro	: Test Type: Ba Method: OEC Result: negat : Test Type: M cytogenetic a Species: Mou	acterial reverse mutation assay (AMES) D Test Guideline 471 ive ammalian erythrocyte micronucleus test (in vive ssay) ise
Genot	toxicity in vitro	 Test Type: Bandethod: OEC Result: negative : Test Type: Mandethod: Application R 	acterial reverse mutation assay (AMES) D Test Guideline 471 ive ammalian erythrocyte micronucleus test (in vive ssay) ise oute: Intraperitoneal injection
Genot	toxicity in vitro	 Test Type: Ba Method: OEC Result: negat Test Type: M cytogenetic a Species: Mou Application R Method: OEC 	acterial reverse mutation assay (AMES) D Test Guideline 471 ive ammalian erythrocyte micronucleus test (in vive ssay) ise oute: Intraperitoneal injection D Test Guideline 474
Genot	toxicity in vitro	 Test Type: Ba Method: OEC Result: negat Test Type: M cytogenetic a Species: Mou Application R Method: OEC Result: negat 	acterial reverse mutation assay (AMES) D Test Guideline 471 ive ammalian erythrocyte micronucleus test (in vive ssay) ise oute: Intraperitoneal injection D Test Guideline 474
Genot	toxicity in vitro	 Test Type: Ba Method: OEC Result: negat Test Type: M cytogenetic a Species: Mou Application R Method: OEC Result: negat 	acterial reverse mutation assay (AMES) D Test Guideline 471 ive ammalian erythrocyte micronucleus test (in vive ssay) ise oute: Intraperitoneal injection D Test Guideline 474 ive
Genot Genot	toxicity in vitro toxicity in vivo	 Test Type: Ba Method: OEC Result: negat Test Type: Ma cytogenetic a Species: Mou Application R Method: OEC Result: negat Remarks: Ba 	acterial reverse mutation assay (AMES) D Test Guideline 471 ive ammalian erythrocyte micronucleus test (in vive ssay) ise oute: Intraperitoneal injection D Test Guideline 474 ive sed on data from similar materials
Genot Genot	toxicity in vitro	 Test Type: Bay Method: OEC Result: negation Test Type: May cytogenetic a Species: Mou Application R Method: OEC Result: negation Remarks: Bay Test Type: Bay 	acterial reverse mutation assay (AMES) D Test Guideline 471 ive ammalian erythrocyte micronucleus test (in vive ssay) ise oute: Intraperitoneal injection D Test Guideline 474 ive sed on data from similar materials
Genot Genot	toxicity in vitro toxicity in vivo	 Test Type: Bay Method: OEC Result: negation Test Type: May cytogenetic a Species: Mou Application R Method: OEC Result: negation Remarks: Bay Test Type: Bay 	acterial reverse mutation assay (AMES) D Test Guideline 471 ive ammalian erythrocyte micronucleus test (in vive ssay) use oute: Intraperitoneal injection D Test Guideline 474 ive sed on data from similar materials acterial reverse mutation assay (AMES) D Test Guideline 471
Genot Genot	toxicity in vitro toxicity in vivo	 Test Type: Ba Method: OEC Result: negat Test Type: M cytogenetic a Species: Mou Application R Method: OEC Result: negat Remarks: Ba Test Type: Ba Method: OEC Result: negat 	Acterial reverse mutation assay (AMES) D Test Guideline 471 ive ammalian erythrocyte micronucleus test (in vive ssay) Ise oute: Intraperitoneal injection D Test Guideline 474 ive sed on data from similar materials acterial reverse mutation assay (AMES) D Test Guideline 471 ive vitro mammalian cell gene mutation test
Genot Genot	toxicity in vitro toxicity in vivo	 Test Type: Ba Method: OEC Result: negat Test Type: M cytogenetic a Species: Mou Application R Method: OEC Result: negat Remarks: Ba Test Type: Ba Method: OEC Result: negat 	Acterial reverse mutation assay (AMES) D Test Guideline 471 ive ammalian erythrocyte micronucleus test (in vive ssay) Ise oute: Intraperitoneal injection D Test Guideline 474 ive sed on data from similar materials acterial reverse mutation assay (AMES) D Test Guideline 471 ive vitro mammalian cell gene mutation test D Test Guideline 476
Genot Genot	toxicity in vitro toxicity in vivo	 Test Type: Ba Method: OEC Result: negat Test Type: Ma cytogenetic a Species: Mou Application R Method: OEC Result: negat Remarks: Ba Test Type: Ba Method: OEC Result: negat Test Type: In Method: OEC Result: negat Test Type: In Method: OEC Result: negat 	Acterial reverse mutation assay (AMES) D Test Guideline 471 ive ammalian erythrocyte micronucleus test (in vive ssay) Ise oute: Intraperitoneal injection D Test Guideline 474 ive sed on data from similar materials acterial reverse mutation assay (AMES) D Test Guideline 471 ive vitro mammalian cell gene mutation test D Test Guideline 476



ersion B	Revision Date: 10/21/2021	SDS Number: 418993-00005	Date of last issue: 11/12/2020 Date of first issue: 12/27/2016
		Result: negativ	/e
Сорр	er metal powder:		
Genot	toxicity in vitro		cterial reverse mutation assay (AMES) D Test Guideline 471 /e
Genotoxicity in vivo		cytogenetic as Species: Mous Application Ro Method: Direct Result: negativ	se ute: Ingestion tive 67/548/EEC, Annex V, B.12.
Calci	um hydroxide:		
	toxicity in vitro		cterial reverse mutation assay (AMES) D Test Guideline 471 /e
			romosome aberration test in vitro D Test Guideline 473 /e
			vitro mammalian cell gene mutation test D Test Guideline 476 ve
	nogenicity assified based on ava	Method: OECI Result: negativ	D Test Guideline 476
Not cl		Method: OECI Result: negativ	D Test Guideline 476
Not cl <u>Comp</u>	assified based on ave conents:	Method: OECI Result: negativ	D Test Guideline 476 /e
Not cl <u>Comp</u>	assified based on ave <u>conents:</u> lates (petroleum), h	Method: OECE Result: negativ	D Test Guideline 476 /e
Not cl <u>Comp</u> Distill Specie Applic	assified based on ave <u>conents:</u> lates (petroleum), hy es cation Route	Method: OECE Result: negativ ailable information. ydrotreated heavy pa : Mouse : Skin contact	D Test Guideline 476 /e
Not cl Comp Distill Specie Applic Expos	assified based on ave <u>conents:</u> lates (petroleum), hy es cation Route sure time	Method: OECE Result: negativ ailable information. ydrotreated heavy pa : Mouse : Skin contact : 78 weeks	D Test Guideline 476 /e
Not cl Comp Distill Specie Applic Expos Metho	assified based on ave <u>conents:</u> lates (petroleum), hy es cation Route sure time od	Method: OECE Result: negativ ailable information. ydrotreated heavy pa : Mouse : Skin contact : 78 weeks : OECD Test Gu	D Test Guideline 476 /e
Not cl Comp Distill Specie Applic Expos	assified based on ave <u>conents:</u> lates (petroleum), h es cation Route sure time od t	Method: OECE Result: negativ ailable information. ydrotreated heavy pa : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative	D Test Guideline 476 /e
Not cl <u>Comp</u> Distill Specie Applic Expos Metho Resul Rema	assified based on ave <u>conents:</u> lates (petroleum), hy es cation Route sure time od lt arks	Method: OECE Result: negativ ailable information. ydrotreated heavy pa : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative	D Test Guideline 476 //e araffinic: uideline 451 from similar materials
Not cl <u>Comp</u> Distill Specie Applic Expos Metho Resul Rema	lassified based on aver <u>conents:</u> lates (petroleum), hy es cation Route sure time od It arks lates (petroleum), hy	Method: OECE Result: negativ ailable information. ydrotreated heavy pa : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Based on data	D Test Guideline 476 //e araffinic: uideline 451 from similar materials
Not cl Comp Distill Specie Applic Expos Methor Result Rema Distill Specie Applic	assified based on ave <u>conents:</u> lates (petroleum), hy es cation Route sure time od it arks lates (petroleum), hy es cation Route	Method: OECE Result: negativ ailable information. ydrotreated heavy pa : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Based on data ydrotreated heavy na	D Test Guideline 476 //e araffinic: uideline 451 from similar materials
Not cl Comp Distill Specie Applic Expos Metho Resul Resul Rema Distill Specie Applic Expos	assified based on ave <u>conents:</u> lates (petroleum), hy es cation Route sure time od t arks lates (petroleum), hy es cation Route sure time	Method: OECL Result: negativ ailable information. ydrotreated heavy pa : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Based on data ydrotreated heavy na : Mouse : Skin contact : 78 weeks	D Test Guideline 476 /e araffinic: uideline 451 from similar materials
Not cl Comp Distill Specie Applic Expos Methor Result Rema Distill Specie Applic	assified based on aver <u>conents:</u> lates (petroleum), hy es cation Route sure time od lt arks lates (petroleum), hy es cation Route sure time od	Method: OECL Result: negativ ailable information. ydrotreated heavy pa : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Based on data ydrotreated heavy na : Mouse : Skin contact	D Test Guideline 476 /e araffinic: uideline 451 from similar materials
Not cl <u>Comp</u> Distill Specie Applic Expos Metho Resul Specie Applic Expos Metho Expos Metho Resul	assified based on aver <u>conents:</u> lates (petroleum), hy es cation Route sure time od t lates (petroleum), hy es cation Route sure time od t sure time od t t	Method: OECE Result: negative ailable information. ydrotreated heavy pa : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Based on data ydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu	D Test Guideline 476 /e araffinic: uideline 451 from similar materials
Not cl Comp Distill Specie Applic Expos Metho Resul Specie Applic Expos Metho Resul	assified based on aver <u>conents:</u> lates (petroleum), hy es cation Route sure time od lt arks lates (petroleum), hy es cation Route sure time od t um hydroxide:	Method: OECL Result: negative ailable information. ydrotreated heavy pa : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Based on data ydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative	D Test Guideline 476 /e araffinic: uideline 451 from similar materials
Not cl Comp Distill Specie Applic Expos Metho Resul Specie Applic Expos Metho Resul Calcie Specie Specie Specie	assified based on aver <u>conents:</u> lates (petroleum), hy es cation Route sure time od lt arks lates (petroleum), hy es cation Route sure time od t um hydroxide:	Method: OECE Result: negative ailable information. ydrotreated heavy pa : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Based on data ydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu	D Test Guideline 476 /e araffinic: uideline 451 from similar materials



Vers 1.8	sion	Revision Date: 10/21/2021	-	98 Number: 8993-00005	Date of last issue: 11/12/2020 Date of first issue: 12/27/2016
	Result Remar	ks	:	negative Based on data fro	m similar materials
	Quartz Specie Applica Result Remart	s ation Route	:		ist/fume) s) are inextricably bound in the product and ontribute to a dust inhalation hazard.
	Carcino ment	ogenicity - Assess-	:	Positive evidence tion)	from human epidemiological studies (inhala-
	Not cla	ductive toxicity ssified based on availa onents:	ıble	information.	
	Distilla	ates (petroleum), hydr	otre	eated heavy paraf	finic:
		on fertility	:	Test Type: Repro- test Species: Rat Application Route Result: negative	duction/Developmental toxicity screening
	Effects	on fetal development	:	Species: Rat Application Route Method: OECD To Result: negative	
	Graphi	te.			
	-	on fertility	:		
	Effects	on fetal development	:		
	Conne	r metal powder:			
		on fertility	:	Test Type: Two-g Species: Rat Application Route	eneration reproduction toxicity study : Ingestion



ersion .8	Revision Date: 10/21/2021		0S Number: 8993-00005	Date of last issue: 11/12/2020 Date of first issue: 12/27/2016
			Method: OECD T Result: negative	est Guideline 416
Effect	s on fetal development	:	Test Type: Embry Species: Rabbit Application Route Result: negative	vo-fetal development : Ingestion
Calci	um hydroxide:			
	s on fertility	:	reproduction/deve Species: Rat Application Route	ined repeated dose toxicity study with the elopmental toxicity screening test e: Ingestion est Guideline 422
Effect	s on fetal development	:	Species: Rat Application Route Result: negative	vo-fetal development :: Ingestion on data from similar materials
Not cl	-single exposure lassified based on availa conents:	able	information.	
	um hydroxide: ssment	:	May cause respir	atory irritation.
	-repeated exposure lassified based on availa	able	information.	
Comp	oonents:			
Route	er metal powder: es of exposure ssment	:	inhalation (dust/m No significant hea tions of 0.2 mg/l/6	alth effects observed in animals at concentra-
12-Hy	/droxy lithium stearate	:		
	es of exposure ssment	:	Ingestion No significant hea tions of 100 mg/k	alth effects observed in animals at concentra- g bw or less.
Targe	tz: es of exposure et Organs esment	: :		nist/fume) e significant health effects in animals at con- 2 mg/l/6h/d or less.



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Repe	ated dose toxicity	
Comp	oonents:	
Distil	lates (petroleum), h	vdrotreated heavy paraffinic:
Speci	es	: Rabbit
NOAE		: 1,000 mg/kg
	cation Route	: Skin contact
	sure time	: 4 Weeks
Metho		: OECD Test Guideline 410
Rema	Irks	: Based on data from similar materials
Speci		: Rat
NOAE		$> 980 \text{ mg/m}^3$
	cation Route	: inhalation (dust/mist/fume)
Expos	sure time	: 4 Weeks
Distil	lates (petroleum), h	vdrotreated heavy naphthenic:
Speci	es	: Rat
NOAE	EL	: > 0.98 mg/l
	cation Route	: inhalation (dust/mist/fume)
	sure time	: 28 Days
Rema	arks	: Based on data from similar materials
Сорр	er metal powder:	
Speci	es	: Rat
NOAE		: >= 2 mg/m^3
	cation Route	: inhalation (dust/mist/fume)
Expos	sure time	: 28 Days
12-Hy	droxy lithium stear	ate:
Speci	es	: Rat
NOAE		: > 88 mg/kg
	cation Route	: Ingestion
Expos	sure time	: 90 Days
Calci	um hydroxide:	
Speci	-	: Mouse
NOAE		: >= 1,300 mg/kg
	cation Route	: Ingestion
	sure time	: 28 Days
Rema	arks	: Based on data from similar materials
Speci		: Rat
NOAE		$\Rightarrow = 0.107 \text{ mg/l}$
	cation Route	: inhalation (dust/mist/fume)
Expos Metho	sure time	: 28 Days : OECD Test Guideline 412
weuld		. OEOD Test Guideline 412
Quart	z:	
Speci	es	: Humans



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LOAE Applic Rema	ation Route	:		nist/fume) e(s) are inextricably bound in the product and contribute to a dust inhalation hazard.
-	ation toxicity assified based on availa	ble	information.	
SECTION	12. ECOLOGICAL INFO	DRN	IATION	
Ecoto	xicity			
<u>Comp</u>	onents:			
	ates (petroleum), hydr ty to fish	otre :	LC50 (Pimephale Exposure time: 9 Method: OECD	es promelas (fathead minnow)): > 100 mg/l
	ty to daphnia and other c invertebrates	:	Exposure time: 4 Method: OECD	nagna (Water flea)): > 10,000 mg/l 8 h Fest Guideline 202 on data from similar materials
Toxici plants	ty to algae/aquatic	:	mg/I Exposure time: 7 Method: OECD	rchneriella subcapitata (green algae)): > 100 2 h Fest Guideline 201 on data from similar materials
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 2 Method: OECD	magna (Water flea)): 10 mg/l 1 d Fest Guideline 211 on data from similar materials
Toxici	ty to microorganisms	:	NOEC: > 1.93 m Exposure time: 1 Method: DIN 38 Remarks: Based	0 min
Distill	ates (petroleum), hydr	otre	eated heavy napl	nthenic:
Toxici	ty to fish	:	Exposure time: 9 Method: OECD	es promelas (fathead minnow)): > 100 mg/l)6 h Fest Guideline 203 on data from similar materials
	ty to daphnia and other c invertebrates	:	Exposure time: 4	nagna (Water flea)): > 10,000 mg/l 8 h on data from similar materials
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudoki mg/l	rchneriella subcapitata (green algae)): > 100



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				Exposure time: 72 Method: OECD Te Remarks: Based o	
		 to daphnia and other invertebrates (Chron- ity) 	:	Exposure time: 21	nagna (Water flea)): 10 mg/l d on data from similar materials
	Toxicity	<i>i</i> to microorganisms	:	NOEC: > 1.93 mg Exposure time: 10 Remarks: Based o	
	Graphi	te:			
	Toxicity		:	Exposure time: 96	ater Accommodated Fraction
		v 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	<i>i</i> to microorganisms	:	EC50: > 1,012.5 r Exposure time: 3 Method: OECD Te	۰ ٦
	Coppe	r metal powder:			
	Toxicity	-	:	LC50: 8.1 µg/l Exposure time: 96	h
		v to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.792 mg/l h
	Toxicity plants	∕ to algae/aquatic	:	EC50 (Chlorella v Exposure time: 72 Method: OECD Te	
	Toxicity icity)	/ to fish (Chronic tox-	:	NOEC (Oncorhyn	chus mykiss (rainbow trout)): 1 μg/l



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12-Hy	droxy lithium stearate	:		
Toxici	ty to fish	:	Exposure time:	ichus mykiss (rainbow trout)): > 100 mg/l 96 h Test Guideline 203
	ty to daphnia and other c invertebrates	:	Exposure time:	magna (Water flea)): > 100 mg/l 48 h Test Guideline 202
Toxici plants	ty to algae/aquatic	:	100 mg/l Exposure time:	okirchneriella subcapitata (green algae)): > 72 h Test Guideline 201
Calciu	ım hydroxide:			
Toxici	ty to fish	:	LC50 (Gasteros mg/l Exposure time: s	teus aculeatus (threespine stickleback)): 48 96 h
	ty to daphnia and other c invertebrates	:	EC50 (Crangon Exposure time:	crangon (shrimp)): 158 mg/l 96 h
Toxici plants	ty to algae/aquatic	:	184.57 mg/l Exposure time:	kirchneriella subcapitata (green algae)): 72 h Test Guideline 201
			mg/l Exposure time:	irchneriella subcapitata (green algae)): 79.: 72 h Test Guideline 201
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC: 32 mg/l Exposure time:	14 d
Toxici	ty to microorganisms	:	EC50: 300.4 mg Exposure time: Method: OECD	
Quart	z:			
Ecoto	xicology Assessment			
Acute	aquatic toxicity	:	No toxicity at the	e limit of solubility.
Chron	ic aquatic toxicity	:	No toxicity at the	e limit of solubility.
Persis	stence and degradabili	ity		
Comn	onents:			

Biodegradability : Result: Not readily biodegradable.



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		Exposure	lation: 31 % time: 28 d DECD Test Guideline 301F
Distil	lates (petroleum), hy	drotreated heav	y naphthenic:
Biode	gradability	Biodegrad Exposure	ot readily biodegradable. lation: 2 - 4 % time: 28 d DECD Test Guideline 301B
12-Hy	droxy lithium steara	te:	
Biode	gradability	Biodegrac Exposure	eadily biodegradable. lation: 78 % time: 28 d DECD Test Guideline 301C
Bioad	cumulative potentia	I	
No da	ita available		
	ity in soil Ita available		
Other	adverse effects		
No do	ita available		

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	
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•••••••	
UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
1 11 0	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
0.000	



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La Pa	Packing group Labels Packing instruction (cargo aircraft)		: :	III Miscellaneous 964	
Pa ge	Packing instruction (passen- ger aircraft) Environmentally hazardous		:	964 ves	
MI 1U	IDG-(N nun	Code	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Pa La Er	Class Packing group Labels EmS Code Marine pollutant		: : : : : : : : : : : : : : : : : : : :	(Copper metal po 9 III 9 F-A, S-F yes	wder)
	-	ort in bulk according			OL 73/78 and the IBC Code
Do	omes	tic regulation			
	DG Ninun	nber		LINI 3082	

100	
UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S.
	(Copper metal powder)
Class	: 9
Packing group	: III
Labels	: 9
ERG Code	: 171
Marine pollutant	: yes(Copper metal 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: 0.1 % / 1.1 g/l

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).



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SECTION 16. OTHER INFORMATION

Full text of other abbreviations					
:	USA. ACGIH Threshold Limit Values (TLV)				
:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)				
:	Canada. British Columbia OEL				
:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.				
:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants				
:	8-hour, time-weighted average				
:	8-hour Occupational exposure limit				
:	15-minute occupational exposure limit				
:	8-hour time weighted average				
:	Time-Weighted Average Limit (TWA)				
:	Time-weighted average exposure value				
:	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 -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

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-



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