

Version 10.0	Revision Date: 11/04/2020	SDS Numbe 119985-000	
SECTIO	N 1. IDENTIFICATION		
Proc	duct name	: COPR	PLUS
SDS	S-Identcode	: 377G	
Man	ufacturer or supplier's	details	
Corr Add	npany name of supplier ress	: 2126 Va	e Corporation anco Drive X 75061,
Tele	phone	•	3-9164/972-865-8961
Tele		: 214-631	
Eme	ergency telephone		REC U.S.: 800-424-9300, International 703-527-3887 rs/7 days)
E-m	ail address	: www.be	stolife.com
Rec	ommended use of the	chemical and	restrictions on use
Rec	ommended use	Offshore	al use Compound (Pipe Dope) and Jacking grease for use in e industries (without offshore industries)
Res	trictions on use		use on oxygen lines or in oxygen enriched atmos-

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in acc 1910.1200)	dance with the OSHA Hazard Communication Standard (29 CFR
Eye irritation	: Category 2A

GHS	label	elements	5
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Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H319 Causes serious eye irritation.
Precautionary Statements	:	Prevention: P264 Wash skin thoroughly after handling. P280 Wear eye protection and face protection.
		Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention.



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Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

eempenente		
Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	>= 30 - < 50
Graphite	7782-42-5	>= 10 - < 20
Copper metal powder Talc	7440-50-8	>= 10 - < 20
Talc	14807-96-6	>= 5 - < 10
Calcium oxide	1305-78-8	>= 5 - < 10
Dolomite	16389-88-1	>= 1 - < 5
Quartz	14808-60-7	>= 1 - < 5
A standard strategies in the fill state of a	1 · · · 1 · · · · · · · · · · · · · · ·	

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air.
In case of skin contact	:	Get medical attention if symptoms occur. 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.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Causes serious eye irritation.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical



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	Insuitable extinguishing nedia	:	None known.	
	Specific hazards during fire ghting	:	Exposure to com	pustion products may be a hazard to health.
Hazardous combustion prod- ucts		:	Carbon oxides Metal oxides	
	Specific extinguishing meth- ids	:	cumstances and Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special protective equipment or fire-fighters	: :	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	•	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable container for disposal. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.	
Advice on safe handling	For outdoor use only Do not get on skin or clothing. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and practice, based on the results of the workplace exposur assessment Take care to prevent spills, waste and minimize release environment.	re
Conditions for safe storage	Keep in properly labeled containers. Store in accordance with the particular national regulati	ons
Materials to avoid	Do not store with the following product types:	0.101



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Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	TWA (Mist)	5 mg/m³	OSHA Z-1
		TWA (Inhal- able particu- late matter)	5 mg/m³	ACGIH
		TWA (Mist)	5 mg/m ³	NIOSH REL
		ST (Mist)	10 mg/m ³	NIOSH REL
Graphite	7782-42-5	TWA (Res- pirable)	2.5 mg/m ³	NIOSH REL
		TWA (Res- pirable par- ticulate mat- ter)	2 mg/m³	ACGIH
		TWA (Dust)	15 Million particles per cubic foot	OSHA Z-3
Copper metal powder	7440-50-8	TWA (Dust and mist)	1 mg/m³ (Copper)	ACGIH
		TWA (Fumes)	0.2 mg/m ³ (Copper)	ACGIH
		TWA (Dust)	1 mg/m ³ (Copper)	NIOSH REL
		TWA (Mist)	1 mg/m ³ (Copper)	NIOSH REL
		TWA (dusts and mists)	1 mg/m ³ (Copper)	OSHA Z-1
		TWA (Fumes)	0.1 mg/m ³ (Copper)	OSHA Z-1
Talc	14807-96-6	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Res- pirable)	2 mg/m ³	NIOSH REL
		TWA (Res- pirable par- ticulate mat- ter)	2 mg/m³	ACGIH
Calcium oxide	1305-78-8	TWA	2 mg/m ³	ACGIH
		TWA	2 mg/m ³	NIOSH REL
		TWA	5 mg/m ³	OSHA Z-1
Dolomite	16389-88-1	TWA (Res- pirable)	5 mg/m³ (Calcium car- bonate)	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL



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				(Calcium car- bonate)	
Quart	Z	14808-60-7	TWA (Res- pirable dust)	0.05 mg/m ³	OSHA Z-1
			TWA (respir- able)	10 mg/m3 / %SiO2+2	OSHA Z-3
			TWÁ (respir- able)	250 mppcf / %SiO2+5	OSHA Z-3
			TWA (Res- pirable par- ticulate mat- ter)	0.025 mg/m³ (Silica)	ACGIH
			TWA (Res- pirable dust)	0.05 mg/m ³ (Silica)	NIOSH REL
			PEL (respir- able)	0.05 mg/m ³	OSHA CARC
	e substance(s) are in lust inhalation hazar Quartz		n the product a	nd therefore do no	ot contribute
Engir	neering measures	Dust formation product. In a limitations of workplaces h assessment. Particulates l dust, 5 mg/m Particles (ins	on may be releva ddition to substa concentrations of ave to be consid Relevant limits i Not Otherwise Re 3 - respirable fra oluble or poorly 3 mg/m3 - respira	e concentrations. Int in the processing nce-specific OELs, of particulates in the lered in workplace nclude: OSHA PEL egulated of 15 mg/r action; and ACGIH soluble) Not Otherv able particles, 10 m	general e air at risk - for m3 - total TWA for vise
Perso	onal protective equip	oment			
Resp	iratory protection	maintain vap concentratior unknown, ap Follow OSH/	or exposures be ns are above rec propriate respira A respirator regul	ntilation is recomm low recommended ommended limits o tory protection sho lations (29 CFR 19 respirators Protect	limits. Where r are uld be worn. 10.134) and

use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

resistance to chemicals of the aforementioned protective

Hand protection

Material	:	Chemical-resistant gloves
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the



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Skir	protection n and body protection jiene measures	:	breaks and at the Wear the followin Safety goggles Select appropriat resistance data a potential. Skin contact mus clothing (gloves, If exposure to che eye flushing syste working place. When using do n	love manufacturer. Wash hands before e end of workday. ag personal protective equipment: the protective clothing based on chemical and an assessment of the local exposure at be avoided by using impervious protective aprons, boots, etc). emical is likely during typical use, provide ems and safety showers close to the ot eat, drink or smoke. ted clothing before re-use.
SECTIO	N 9. PHYSICAL AND CH	ΞΜΙΟ	CAL PROPERTIE	S
Арр	earance	:	Viscous semi-sc	lid
Colo	or	:	copper	
Odo	n	:	Petroleum	
Odo	or Threshold	:	No data availabl	e
рН		:	Not applicable (r	not an aqueous solution)
Melt	ting point/freezing point	:	No data availabl	e
Initia rang	al boiling point and boiling ge	:	No data availabl	e
Flas	sh point	:	Not applicable	
Eva	poration rate	:	Not applicable	
Flan	mmability (solid, gas)	:	Not classified as	a flammability hazard
	per explosion limit / Upper nmability limit	:	No data availabl	e
	ver explosion limit / Lower nmability limit	:	No data availabl	e
Vap	or pressure	:	Not applicable	
Rela	ative vapor density	:	Not applicable	
Rela	ative density	:	1.2	
Den	nsity	:	No data availabl	e
	ubility(ies) Water solubility	:	negligible	



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octa	tion coefficient: n- nol/water	:	Not applicable	
Auto	ignition temperature	:	No data available	
Deco	omposition temperature	:	No data available	9
Visco V	osity iscosity, dynamic	:	No data available)
V	Viscosity, kinematic		Not applicable	
Flow	time	:	No data available)
Expl	osive properties	:	Not explosive	
Oxid	izing properties	:	The substance o	r mixture is not classified as oxidizing.
Mole	ecular weight	:	No data available)
Parti	cle size	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
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

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Components:

Distillates (petroleum), hydrotreated light naphthenic: Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg						
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401				
Acute inhalation toxicity	:	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 inhala-				



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I		tion toxicity	
Acute	e dermal toxicity	: LD50 (Rabbit Assessment: toxicity	:): > 2,000 mg/kg The substance or mixture has no acute dermal
Grap	hite:		
-	e oral toxicity		 2,000 mg/kg D Test Guideline 423 The substance or mixture has no acute oral tox-
Acute	e inhalation toxicity		
	per metal powder:		
UL	e oral toxicity		 2,500 mg/kg D Test Guideline 423 The substance or mixture has no acute oral tox-
Acute	e inhalation toxicity	Method: OEC	
Acute	e dermal toxicity		 2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal
u	e oral toxicity	: LD50 (Rat): > Remarks: Ba	5,000 mg/kg sed on data from similar materials
	ium oxide:		
	e oral toxicity	: LD50 (Rat): > Method: OEC	▶ 2,000 mg/kg CD Test Guideline 425
Acute	e inhalation toxicity	Method: OEC	
Acute	e dermal toxicity): > 2,500 mg/kg CD Test Guideline 402 The substance or mixture has no acute dermal



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		toxicity Remarks: Bas	ed on data from similar materials
Dolo	mite:		
LL.	e oral toxicity	Assessment: icity	2,000 mg/kg D Test Guideline 420 The substance or mixture has no acute oral tox- ed on data from similar materials
Acute	inhalation toxicity	tion toxicity	ə: 4 h
Acute	e dermal toxicity	Assessment: toxicity	2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal sed on data from similar materials
Quar	tz:		
UL.	e oral toxicity	: LD50 (Rat): >	5,000 mg/kg
Not c Com	corrosion/irritation lassified based on ava ponents: lates (petroleum), hy		ohthenic:
Speci Resu	ies It	: Rabbit : No skin irritati	on
Grap	hite:		
Speci Metho Resu	ies od	: Rabbit : OECD Test G : No skin irritati	
	er metal powder:		
Speci Metho Resu	ies od	: Rabbit : OECD Test G : No skin irritati	
II. .			
Talc: Speci Resu		: Rabbit : No skin irritati	on
Calci	um oxide:		



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Specie Methor Result Remar	d	: Skin irritatior	Guideline 404 า ata from similar materials	
Dolom Specie Methoo Result Remar	es d	: No skin irrita	Guideline 404 tion ta from similar materials	
	is eye damage/eye irr			
Produce Result			eyes, reversing within 21 days	
Comp	onents:			
Distilla	ates (petroleum), hyd	rotreated light na	aphthenic:	
Specie		: Rabbit		
Result		: No eye irrita	tion	
Graph Specie Result Method	S	: Rabbit : No eye irrita : OECD Test	tion Guideline 405	
Сорре	er metal powder:			
Specie		: Rabbit		
Result		: No eye irrita		
Method		: OECD Test	Guideline 405	
Talc:				
Specie	S	: Rabbit		
Result		: No eye irrita	tion	
Calciu	m oxide:			
Specie		: Rabbit		
Result			effects on the eye	
Method	b	: OECD Test	Guideline 405	
Dolom	lite:			
Specie		: Rabbit		
Result		: No eye irrita	tion	
Method	d	: OECD Test	Guideline 405	
Remar	ks	: Based on da	ta from similar materials	



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Respi	ratory or skin sensit	ization	
	sensitization assified based on ava	ilable information.	
-	ratory sensitization assified based on ava	ilable information.	
<u>Comp</u>	onents:		
Distill	ates (petroleum), hy	drotreated light nap	ohthenic:
Test T Route Specie Metho Result	s of exposure es od	 Buehler Test Skin contact Guinea pig OECD Test G negative 	uideline 406
Graph	nite:		
Test T	⁻ype s of exposure es	: Local lymph n : Skin contact : Mouse : negative	ode assay (LLNA)
Сорре	er metal powder:		
Test T Route Specie Metho Result	s of exposure es od	: Maximization : Skin contact : Guinea pig : OECD Test G : negative	
Talc:			
U .		: Skin contact : Humans : negative	
	um oxide:		
Test T	⊽pe s of exposure es od t	 Skin contact Mouse OECD Test G negative 	ode assay (LLNA) uideline 429 a from similar materials
Dolon	nite:		
Test T	ype s of exposure es d	 Skin contact Mouse OECD Test G negative 	ode assay (LLNA) uideline 429 a from similar materials



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Germ	cell mutagenicity		
Not c	lassified based on av	ailable information.	
<u>Com</u>	ponents:		
Distil	lates (petroleum), h	ydrotreated light nap	hthenic:
u.	toxicity in vitro	: Test Type: Ba	cterial reverse mutation assay (AMES) D Test Guideline 476
Geno	toxicity in vivo	cytogenetic as Species: Mous Application Ro	e ute: Intraperitoneal injection D Test Guideline 474
Grap	hite:		
	toxicity in vitro		cterial reverse mutation assay (AMES) D Test Guideline 471 /e
			vitro mammalian cell gene mutation test D Test Guideline 476 ve
			romosome aberration test in vitro D Test Guideline 473 /e
II II conn	er metal powder:		
	toxicity in vitro		cterial reverse mutation assay (AMES) D Test Guideline 471 /e
Geno	toxicity in vivo	cytogenetic as Species: Mous Application Ro Method: Direct Result: negativ	ute: Ingestion ive 67/548/EEC, Annex V, B.12.
Talc:			
UL.	toxicity in vitro		A damage and repair, unscheduled DNA syr nalian cells (in vitro) /e
Geno	toxicity in vivo	: Test Type: Ch Species: Rat Application Ro Result: negativ	



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Calci	um oxide:		
Genotoxicity in vitro			cterial reverse mutation assay (AMES) D Test Guideline 471 /e
		Method: OECI Result: negativ	
		Remarks: Base	ed on data from similar materials
			/itro mammalian cell gene mutation test D Test Guideline 476 /e
		Remarks: Bas	ed on data from similar materials
Dolor	nite:		
Geno	toxicity in vitro	Method: OECI Result: negativ	cterial reverse mutation assay (AMES) D Test Guideline 471 /e ed on data from similar materials
II			
Carci	nogenicity		
	assified based on ava	ailable information.	
Produ	uct:		illates have been classified as not carcinoger
Produ		: Petroleum dist based on DMS	illates have been classified as not carcinoger 60 extract content < 3% (Regulation (EC) nex VI, Part 3, Note L).
Produ Carcin ment	uct:	: Petroleum dist based on DMS	SO extract content < 3% (Regulation (EC)
Produ Carcin ment	<u>uct:</u> nogenicity - Assess- ponents:	: Petroleum dist based on DMS	SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L).
Produ Carcin ment Comp Distil	<u>uct:</u> nogenicity - Assess- <u>ponents:</u> lates (petroleum), hy es	: Petroleum dist based on DMS 1272/2008, An ydrotreated light nap : Mouse	SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L).
Produ Carcin ment Comp Distil Speci Applic	uct: nogenicity - Assess- <u>ponents:</u> lates (petroleum), hy es cation Route	: Petroleum dist based on DMS 1272/2008, An ydrotreated light nap : Mouse : Skin contact	SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L).
Produ Carcin ment Comp Distil Speci Applic	uct: nogenicity - Assess- <u>conents:</u> lates (petroleum), hy es cation Route sure time	: Petroleum dist based on DMS 1272/2008, An ydrotreated light nap : Mouse	SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L).
Produ Carcin ment Comp Distill Speci Applic Expos Resul	uct: nogenicity - Assess- <u>conents:</u> lates (petroleum), hy es cation Route sure time	: Petroleum dist based on DMS 1272/2008, An ydrotreated light nap : Mouse : Skin contact : 78 weeks	SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L).
Produ Carcin ment Comp Distill Speci Applic Expos Resul Talc:	<u>uct:</u> nogenicity - Assess- <u>conents:</u> lates (petroleum), hy es cation Route sure time t	 Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative 	SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L).
Produ Carcin ment Comp Distill Speci Applic Expos Resul Talc: Speci	uct: nogenicity - Assess- <u>conents:</u> lates (petroleum), hy es cation Route sure time t	 Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse 	SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L).
Produ Carcin ment Comp Distill Speci Applic Expos Resul Talc: Speci Applic	uct: nogenicity - Assess- <u>ponents:</u> lates (petroleum), hy es cation Route sure time t t	 Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse inhalation (dustication) 	hthenic:
Produ Carcin ment Comp Distill Speci Applic Expos Resul Talc: Speci Applic	uct: nogenicity - Assess- <u>conents:</u> lates (petroleum), hy es cation Route sure time t es cation Route sure time	 Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse 	SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L).
Produ Carcin ment Comp Distill Speci Applic Expos Resul Talc: Speci Applic Expos Resul	<u>uct:</u> nogenicity - Assess- <u>conents:</u> lates (petroleum), hy es cation Route sure time t es cation Route sure time t	 Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse inhalation (dus 2 Years 	SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L).
Produ Carcin ment Comp Distil Speci Applic Expos Resul Talc: Speci Applic Expos Resul	uct: nogenicity - Assess- <u>ponents:</u> lates (petroleum), hy es cation Route sure time t es cation Route sure time t um oxide:	 Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse inhalation (dus 2 Years negative 	SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L).
Produ Carcin ment Comp Distil Speci Applic Expos Resul Talc: Speci Applic Expos Resul	Juct: hogenicity - Assess- Donents: lates (petroleum), hy es cation Route sure time t es cation Route sure time t um oxide: es	 Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse inhalation (dus 2 Years negative Rat 	SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L).
Produ Carcin ment Comp Distill Speci Applic Expos Resul Talc: Speci Applic Expos Resul Calcin Speci Applic	<u>Juct:</u> hogenicity - Assess- <u>bonents:</u> lates (petroleum), hy es cation Route sure time t um oxide: es cation Route	 Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse inhalation (dus 2 Years negative 	SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L).
Produ Carcin ment Comp Distill Speci Applic Expos Resul Talc: Speci Applic Expos Resul Calcin Speci Applic	<pre>uct: nogenicity - Assess- ponents: lates (petroleum), hy es cation Route sure time t es cation Route sure time t um oxide: es cation Route sure time t</pre>	 Petroleum dist based on DMS 1272/2008, An ydrotreated light nap Mouse Skin contact 78 weeks negative Mouse inhalation (dustion) 2 Years negative Rat Ingestion 104 weeks negative 	SO extract content < 3% (Regulation (EC) inex VI, Part 3, Note L).



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Quart Specie Applic Result Rema	es ation Route t		st/mist/fume) nce(s) are inextricably bound in the product and ot contribute to a dust inhalation hazard.			
Carcir ment	nogenicity - Assess-	: Positive evide tion)	1 5 (
IARC	Group 1: Caro Quartz (Silica dust, c	cinogenic to human rystalline)	14808-60-7			
OSHA	OSHA specifi Quartz (crystalline sil	cally regulated card	binogen 14808-60-7			
NTP	Quartz	human carcinogen Illine (Respirable S	14808-60-7 ize))			
Comp Distill Effects	assified based on availa ponents: ates (petroleum), hydr s on fertility	rotreated light nap : Test Type: Re test Species: Rat Application Ro Result: negati	production/Developmental toxicity screening oute: Ingestion ve			
Effects	s on fetal development	Species: Rat	nbryo-fetal development oute: Skin contact ve			
Grap Effect	hite: s on fertility	reproduction/c Species: Rat Application Ro Method: OEC	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative			
Effect	s on fetal development	reproduction/c Species: Rat Application Ro	ombined repeated dose toxicity study with the developmental toxicity screening test oute: Ingestion D Test Guideline 422 ve			



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IJ					
Сорр	er metal powder:				
Effect	Effects on fertility		 Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials 		
Effect	Effects on fetal development		Test Type: Embryo-fetal development Species: Rabbit Application Route: Ingestion Result: negative		
Talc:					
Effect	ts on fetal development	:	Test Type: Emb Species: Rat Application Rou Result: negative		
Calci	um oxide:				
Effect	ts on fertility	:	reproduction/de Species: Rat Application Rou Method: OECD Result: negative	Test Guideline 422	
Effect	ts on fetal development	:	Species: Mouse Application Rou	te: Ingestion Test Guideline 414	
Doloi	mite:				
UL.	ts on fertility	:	reproduction/de Species: Rat Application Rou Method: OECD Result: negative	Test Guideline 422	
Effect	ts on fetal development	:	reproduction/de Species: Rat Application Rou Method: OECD Result: negative	Test Guideline 422	



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STOT	-single exposure		
	assified based on av	ailable information	
	oonents:		
11			
ч.	um oxide:		
Asses	ssment	: May cause res	piratory irritation.
	-repeated exposure		
	assified based on av	ailable information.	
<u>Comp</u>	<u>oonents:</u>		
Quart	tz:		
	es of exposure	: inhalation (due	st/mist/fume)
	et Organs	: Lungs	
Asses	ssment		luce significant health effects in animals at cor 0.02 mg/l/6h/d or less.
Repe	ated dose toxicity		
Com	oonents:		
Distil	lates (petroleum), h	ydrotreated light nap	hthenic:
Speci		: Rabbit	
NOAE		: 1,000 mg/kg	
	cation Route	: Skin contact	
Expos	sure time od	: 4 Weeks : OECD Test G	uideline 410
Сорр	er metal powder:		
Speci		: Rat	
NOAE	EL	: >= 2 mg/m ³	
Applic	cation Route sure time	: inhalation (due	st/mist/fume)
Expos	sure time	: 28 Days	
Calci	um oxide:		
Speci	es	: Rat	
NOAE	EL	: >= 0.399 mg/l	
	cation Route	: inhalation (due	st/mist/fume)
Expos	sure time	: 90 Days : OECD Test G	udalina 412
		. OECD Test G	lideline 413
Dolor			
Speci		: Mouse	
NOAE		: 1,300 mg/kg	
Applic	cation Route sure time	: Ingestion : 28 Days	
Rema	arks		from similar materials
		. Bassa on aat	



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Spec LOAE Appli	Quartz: Species LOAEL Application Route Remarks			nist/fume) (s) are inextricably bound in the product and contribute to a dust inhalation hazard.		
Not c	Aspiration toxicity Not classified based on available information.					
	12. ECOLOGICAL INF					
<u>Prod</u> Toxic	uct: ity to fish	:	Exposure time: 9 Method: OECD T	es promelas (fathead minnow)): 10,250 mg/l 6 h est Guideline 203 on data from similar materials		
	ity to daphnia and other tic invertebrates	:	Exposure time: 9 Method: OECD T Remarks: Based	nagna (Water flea)): 15,470 mg/l 6 h est Guideline 202 on data from similar materials nagna (Water flea)): 30,940 mg/l		
			Exposure time: 4 Method: OECD T			
Toxic plants	ity to algae/aquatic S	:	mg/l Exposure time: 9 Method: OECD T	um capricornutum (green algae)): 70,100 6 h est Guideline 201 on data from similar materials		
			mg/l Exposure time: 9 Method: OECD T	rum capricornutum (green algae)): 60,000 6 h rest Guideline 201 on data from similar materials		
11	ponents:					
4.4.	lates (petroleum), hyd ity to fish		LL50 (Pimephale Exposure time: 9	s promelas (fathead minnow)): > 100 mg/l		
Tovio	ity to dophnic and other		ELEO (Dophoio m	$(M_{a}) = 10,000$ mg/l		



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Toxicit plants	Toxicity to algae/aquatic plants		 NOELR (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction 			
aquati	c invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 10 mg/l d		
ic toxic Toxicit	city) ty to microorganisms	:	NOEC (Photobacterium phosphoreum): > 2.17 mg/l Exposure time: 4 d			
Graph	ito.					
	ty to fish	:	LL50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203			
	ty to daphnia and other c invertebrates	:	EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202			
Toxicit plants	Toxicity to algae/aquatic plants		mg/l Exposure time: 72	Vater Accommodated Fraction		
			100 mg/l Exposure time: 72	Vater Accommodated Fraction		
Toxicit	ty to microorganisms	:	EC50: > 1,012.5 r Exposure time: 3 Method: OECD Te	h		
	er metal powder:					
	ty to fish	:	LC50: > 10 - 100 Exposure time: 96			
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC: > 1 - 10 µ	g/I		
Talc: Toxicit	Talc: Toxicity to fish		LC50 (Brachydani Exposure time: 24	io rerio (zebrafish)): > 100,000 mg/l ŀ h		
	ım oxide:					
	Calcium oxide: Toxicity to fish		LC50 (Oncorhync Exposure time: 96 Method: OECD Te			



rsion .0	Revision Date: 11/04/2020		9985-00017	Date of last issue: 05/06/2020 Date of first issue: 05/19/2015		
II			Remarks: Based	on data from similar materials		
Toxicity to daphnia and other aquatic invertebrates		:	Exposure time: 96 Method: OECD T			
Toxicity to algae/aquatic plants		:	 ErC50 (Pseudokirchneriella subcapitata (green algae) mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials 			
			mg/l Exposure time: 72 Method: OECD T			
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 14	crangon (shrimp)): > 1 mg/l 4 d on data from similar materials		
Toxici	ty to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 Method: OECD T Remarks: Based	h		
Dolor	nite:					
Toxici	ty to fish	:	Exposure time: 96 Method: OECD T Remarks: No toxi			
	ty to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD T Remarks: No toxi	nagna (Water flea)): > 16.6 mg/l 3 h est Guideline 202 city at the limit of solubility. om similar materials		
Toxici plants	ty to algae/aquatic	:	Exposure time: 72 Method: OECD T			
Quart	z:					
	oxicology Assessment					
Acute	aquatic toxicity	:	No toxicity at the	limit of solubility.		
Chron	ic aquatic toxicity	:	No toxicity at the	limit of solubility.		



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Pers	Persistence and degradability							
Prod	uct:							
Biode	egradability	•	: Result: Readily biodegradable. Remarks: Based on data from similar materials					
<u>Com</u>	ponents:							
Disti	llates (petroleum), h	ydrotreated light nap	hthenic:					
Biode	egradability	Biodegradation Exposure time						
Bioa	ccumulative potentia	al						
No da	ata available							
Mobi	lity in soil							
No da	ata available							
Othe	r adverse effects							
No da	ata available							
SECTION	13. DISPOSAL CON	SIDERATIONS						
Disp	osal methods							
-	e from residues	: Dispose of in a	: Dispose of in accordance with local regulations.					

Waste from residues : Contaminated packaging :	 Dispose of in accordance with local regulations. 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 expose 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.
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SECTION 14. TRANSPORT INFORMATION

International Regulations

UN number	: UN 3077
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	(Copper metal powder, Antimony, dialkyl dithiocarbamate)
Class	: 9
Packing group	: III
Labels	: 9
IATA-DGR	
UN/ID No.	: UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Copper metal powder, Antimony, dialkyl dithiocarbamate)
Class	: 9



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Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen-		:	III Miscellaneous 956 956	
•	ger aircraft) Environmentally hazardous		yes	
UN nu	IMDG-Code UN number Proper shipping name		N.O.S.	ALLY HAZARDOUS SUBSTANCE, SOLID, wder, Antimony, dialkyl dithiocarbamate)
Labels EmS (Class Packing group Labels EmS Code Marine pollutant		9 III 9 F-A, S-F yes	
Trans	port in bulk according	l to	Annex II of MARP	OL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR	
UN/ID/NA number	UN 3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s. (Copper metal powder, Antimony, dialkyl dithiocarbamate)
Class	9
Packing group	
Labels	CLASS 9
ERG Code	171
Marine pollutant	yes(Copper metal powder, Antimony, dialkyl dithiocarbamate)
Remarks	Above applies only to containers over 119 gallons or 450 liters.

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Copper metal powder	7440-50-8	5000	46992

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SARA 311/312 Hazards : Serious eye damage or eye irritation

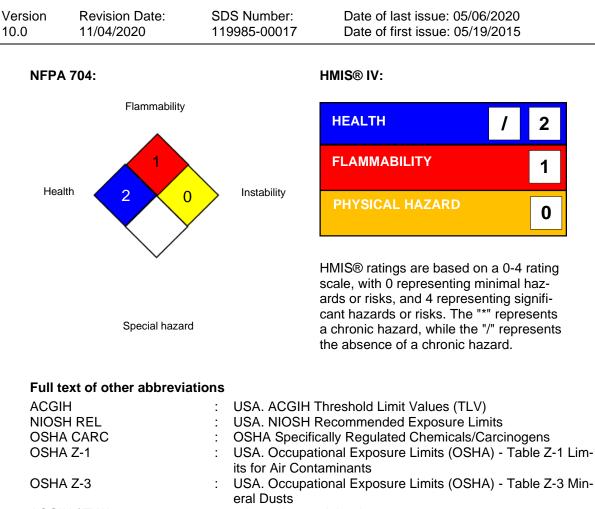


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SARA 313		:	: The following components are subject to reporting l established by SARA Title III, Section 313:		
			Copper metal powder	7440-50-8	>= 10 - < 20 %
US S	tate Regulations				
Penn	sylvania Right To Ki	now			
	Distillates (petrol	leum), nixed e		t naphthenic loic acid, isovaleric	64742-53-6 68130-51-8
	Graphite Copper metal po				7782-42-5 7440-50-8
	Calcium(2+) 12-l Calcium oxide Quartz				
WAR					r, which is/are known to v.P65Warnings.ca.gov.
Califo	Distillates (petrol Graphite Copper metal po Talc Calcium oxide	leum),	bstances hydrotreated ligh	t naphthenic	64742-53-6 7782-42-5 7440-50-8 14807-96-6 1305-78-8
Califo	ornia Permissible Ex	posu	e Limits for Che	mical Contaminant	S
		leum),	hydrotreated ligh		64742-53-6 7782-42-5 7440-50-8 14807-96-6 1305-78-8 14808-60-7
Califo	ornia Regulated Card Quartz	cinoge	ens		14808-60-7
		oduot	are reported in	the following inven	
DSL	ngredients of this pr	:	-	of this product are or	
TSCA	A	:			uct are either listed on the with a TSCA Inventory
AICS		:	All ingredients li	sted or exempt.	

SECTION 16. OTHER INFORMATION

Further information





A	:	8-hour,	time-weighted	average

ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA CARC / PEL OSHA Z-1 / TWA OSHA Z-3 / TWA	:	Permissible exposure limit (PEL) 8-hour time weighted average 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Pre-



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vention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG -United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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

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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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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