

COPR 99

Version 12.0	Revision Date: 10/20/2020	•••	DS Number: 15041-00020	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015	
SECTIO	N 1. IDENTIFICATION				
Proc	duct name	:	COPR 99		
SDS	G-Identcode	:	503G		
Man	ufacturer or supplier's	deta	ails		
	Company name of supplier Address		Bestolife Corpora 2126 Vanco Drive Irving TX 75061,		
Telephone		:	855-243-9164/97	2-865-8961	
Telefax		:	214-631-3047		
Eme	ergency telephone	:	CHEMTREC U.S (24-hours/7 days	.: 800-424-9300, International 703-527-3887)	
E-m	ail address	:	www.bestolife.co	m	
Rec	ommended use of the o	cher	nical and restricti	ons on use	
Rec	ommended use	:	Thread Compour Offshore industrie	nd (Pipe Dope) and Jacking grease for use in es offshore industries)	
Res	trictions on use	:		ygen lines or in oxygen enriched atmos-	

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord 1910.1200)	lan	ce with the OSHA Hazard Communication Standard (29 CFR
Eye irritation	:	Category 2A
Skin sensitization	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
Precautionary Statements	:	Prevention: P261 Avoid breathing dust, fume, gas, mist, vapors or spray. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves, eye protection and face protec- tion.



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		P305 + P351 + for several min to do. Continue P333 + P313 h tion. P337 + P313 h	F ON SKIN: Wash with plenty of soap and water. P338 IF IN EYES: Rinse cautiously with water lutes. Remove contact lenses, if present and easy e rinsing. f skin irritation or rash occurs: Get medical atten- f eye irritation persists: Get medical attention. Intaminated clothing before reuse.
		Disposal: P501 Dispose disposal plant.	of contents and container to an approved waste
	r hazards known.		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

CAS-No.	Concentration (% w/w)
64742-52-5	>= 50 - < 70
14807-96-6	>= 10 - < 20
7782-42-5	>= 10 - < 20
7440-50-8	>= 5 - < 10
16389-88-1	>= 1 - < 5
7620-77-1	>= 1 - < 5
1305-78-8	>= 1 - < 5
57855-77-3	>= 1 - < 5
14808-60-7	>= 1 - < 5
	64742-52-5 14807-96-6 7782-42-5 7440-50-8 16389-88-1 7620-77-1 1305-78-8 57855-77-3

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

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

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lf swa	llowed	Get medical	attention. , DO NOT induce vomiting. attention if symptoms occur. thoroughly with water.		
Most important symptoms and effects, both acute and delayed		: May cause an allergic skin reaction. Causes serious eye irritation.			
Protection of first-aiders		and use the when the po	and use the recommended personal protective equipment when the potential for exposure exists (see section 8).		
Notes	to physician	: Treat sympto	omatically 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	:	Carbon oxides Metal oxides Fluorine compounds Sulfur 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.

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

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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. Avoid breathing dust, fume, gas, mist, vapors or spray. 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 assessment Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: 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 heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m³	OSHA Z-1
		TWA (Inhal- able particu- late matter)	5 mg/m³	ACGIH
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m ³	NIOSH REL
Talc	14807-96-6	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Res- pirable)	2 mg/m³	NIOSH REL
		TWA (Res- pirable par- ticulate mat- ter)	2 mg/m³	ACGIH
Graphite	7782-42-5	TWA (Res- pirable)	2.5 mg/m ³	NIOSH REL
		TWA (Res- pirable par- ticulate mat- ter)	2 mg/m ³	ACGIH
		TWA (Dust)	15 Million particles per cubic	OSHA Z-3



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		1	I	1	1
_				foot	
Copp	er metal powder	7440-50-8	TWA (Dust	1 mg/m ³	ACGIH
			and mist)	(Copper)	
			TWA	0.2 mg/m ³	ACGIH
			(Fumes)	(Copper)	
			TWA (Dust)	1 mg/m³	NIOSH RE
				(Copper)	
			TWA (Mist)	1 mg/m³	NIOSH RE
				(Copper)	
			TWA (dusts	1 mg/m ³	OSHA Z-1
			and mists)	(Copper)	
			TWA	0.1 mg/m ³	OSHA Z-1
			(Fumes)	(Copper)	
Dolon	nite	16389-88-1	TWA (Res-	5 mg/m ³	NIOSH RE
			pirable)	(Calcium car-	
				bonate)	
			TWA (total)	10 mg/m ³	NIOSH RE
				(Calcium car-	
				bonate)	
12-Hy	/droxy lithium stearate	7620-77-1	TWA (Inhal-	10 mg/m ³	ACGIH
	<u>,</u>		able particu-	J. J	
			late matter)		
			TWA (Res-	3 mg/m ³	ACGIH
			pirable par-	Ŭ	
			ticulate mat-		
			ter)		
Calciu	um oxide	1305-78-8	TŴA	2 mg/m ³	ACGIH
			TWA	2 mg/m ³	NIOSH RE
			TWA	5 mg/m ³	OSHA Z-1
Quart	Z	14808-60-7	TWA (Res-	0.05 mg/m ³	OSHA Z-1
	-		pirable dust)		
ll –			TWA (respir-	10 mg/m3	OSHA Z-3
			able)	/ %SiO2+2	
			TWA (respir-	250 mppcf	OSHA Z-3
			able)	/ %SiO2+5	
			TWA (Res-	0.025 mg/m ³	ACGIH
			pirable par-	(Silica)	
			ticulate mat-	(000)	
			ter)		
			TWA (Res-	0.05 mg/m ³	NIOSH RE
			pirable dust)	(Silica)	
			PEL (respir-	0.05 mg/m ³	OSHA CAR
			able)	0.00 mg/m	
.			able)		I

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

Quartz

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Engineering measures

: Minimize workplace exposure concentrations. Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for



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			dust, 5 mg/m3 Particles (insolu	t Otherwise Regulated of 15 mg/m3 - total - respirable fraction; and ACGIH TWA for uble or poorly soluble) Not Otherwise ng/m3 - respirable particles, 10 mg/m3 - les.
Perso	onal protective equip	ment		
	iratory protection	:	maintain vapor concentrations unknown, appre- Follow OSHA r use NIOSH/MS by air purifying hazardous che supplied respira release, exposi	cal exhaust ventilation is recommended to exposures below recommended limits. Where are above recommended limits or are opriate respiratory protection should be worn. espirator regulations (29 CFR 1910.134) and GHA approved respirators. Protection provided respirators against exposure to any mical is limited. Use a positive pressure air ator if there is any potential for uncontrolled ure levels are unknown, or any other where air purifying respirators may not provide ction.
Ma	aterial	:	Chemical-resis	tant gloves
Re	emarks	:	Choose gloves on the concent time is not dete For special app resistance to cl gloves with the	to protect hands against chemicals depending ration specific to place of work. Breakthrough ermined for the product. Change gloves often! plications, we recommend clarifying the nemicals of the aforementioned protective glove manufacturer. Wash hands before he end of workday.
Eye p	protection	:	Wear the follow	ving personal protective equipment:
Skin a	and body protection	:	resistance data potential. Skin contact m	ate protective clothing based on chemical and an assessment of the local exposure ust be avoided by using impervious protective
Hygie	ne measures	:	If exposure to c eye flushing sy working place. When using do Contaminated workplace.	s, aprons, boots, etc). chemical is likely during typical use, provide stems and safety showers close to the not eat, drink or smoke. work clothing should not be allowed out of the nated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Viscous semi-solid
Color	:	copper, black
Odor	:	Petroleum
Odor Threshold	:	No data available



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рН	:	Not applicable (n	ot an aqueous solution)
Melting point/freezing point	:	No data available	9
Initial boiling point and boiling range	:	No data available	
Flash point	:	>= 392 °F / >= 20	0° 00
			92, Cleveland open cup eum), hydrotreated heavy naphthenic
Evaporation rate	:	Not applicable	
Flammability (solid, gas)	:	Not classified as	a flammability hazard
Upper explosion limit / Upper flammability limit	:	No data available	3
Lower explosion limit / Lower flammability limit	:	No data available	
Vapor pressure	:	Not applicable	
Relative vapor density	:	Not applicable	
Relative density	:	1.2	
Solubility(ies) Water solubility	:	negligible	
Partition coefficient: n- octanol/water	:	Not applicable	
Autoignition temperature	:	No data available	2
Decomposition temperature	:	No data available	2
Viscosity Viscosity, kinematic	:	Not applicable	
Flow time	:	No data available	2
Explosive properties	:	Not explosive	
Oxidizing properties	:	The substance of	r mixture is not classified as oxidizing.
Molecular weight	:	No data available	2
Particle size	:	No data available	3

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: Not classified as a reactivity hazard.



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	mical stability sibility of hazardous reac-	:		normal conditions. a strong oxidizing agents.
Inco	ditions to avoid mpatible materials ardous decomposition ucts	:	None known. Oxidizing age No hazardous	nts 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:

<u>components.</u>		
Distillates (petroleum), hyd	drotro	eated heavy naphthenic:
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 Remarks: Based on data from similar materials
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- tion toxicity Remarks: Based on data from similar materials
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials
Talc:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials
Graphite:		
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity	:	LC50 (Rat): > 2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Copper metal powder:		



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Acute	e oral toxicity	Method: OE	> 2,500 mg/kg CD Test Guideline 423 t: The substance or mixture has no acute oral tox-
Acute	e inhalation toxicity	Method: OE	
Acute	e dermal toxicity	Method: OE	> 2,000 mg/kg CD Test Guideline 402 t: The substance or mixture has no acute dermal
	mite:		
U. ···	e oral toxicity	Assessmen icity	> 2,000 mg/kg CD Test Guideline 420 t: The substance or mixture has no acute oral tox- ased on data from similar materials
Acute	e inhalation toxicity	Assessmen tion toxicity	
Acute	e dermal toxicity	Method: OE Assessmen toxicity	> 2,000 mg/kg CD Test Guideline 402 t: The substance or mixture has no acute dermal ased on data from similar materials
Ш́12-Н	ydroxy lithium stearate):	
	e oral toxicity	: LD50 (Rat):	> 2,000 mg/kg t: The substance or mixture has no acute oral tox-
Calc	ium oxide:		
	e oral toxicity		> 2,000 mg/kg CD Test Guideline 425
Acute	e inhalation toxicity	Method: OE	
Acute	e dermal toxicity	: LD50 (Rabb	it): > 2,500 mg/kg

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Graphite: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Copper metal powder: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Dolomite: Species : Species : Result : No skin irritation Dolomite: : Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Result : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials 12-Hydroxy lithium stearate: : No skin irritation Result : No skin irritation	ersion 2.0	Revision Date: 10/20/2020	SDS Number: 115041-00020	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
toxicity Remarks: Based on data from similar materials Calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate): Acute oral toxicity : Acute oral toxicity : Acute dermal toxicity : Calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate): Acute oral toxicity : Acute dermal toxicity : Distribution : Quartz: . Acute oral toxicity : Distribution : Corrosion/irritation . Not classified based on available information. . Components: . Distribution (Species) : Result : Result : Species : Result : Species : Species : Result : Species : Species : Species : Species : Species : Species :	11		Method: OECE) Test Guideline 402
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Calcium bis(di C8-C10, branched, C9 rich, alky/naphthalenesulphonate): Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg Quartz: . Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Stin corrosion/irritation . Not classified based on available information. . Components: . Distillates (petroleum), hydrotreated heavy naphthenic: . Species : Rabbit Result : No skin irritation Result : No skin irritation Species : Rabbit Result : No skin irritation Gaphite: . . Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Domote: . . Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Becies : <t< td=""><td></td><td></td><td></td><td>ad on data from similar materials</td></t<>				ad on data from similar materials
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Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Dolomite:	Сорр	er metal powder:		
Result : No skin irritation Dolomite:	Speci	es	: Rabbit	
Dolomite: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials 12-Hydroxy lithium stearate: : Species : Rabbit Result : No skin irritation Result : Based on data from similar materials Species : Babbit Result : No skin irritation Remarks : Based on data from similar materials Calcium oxide: : Species				
Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials 12-Hydroxy lithium stearate: : Species : Rabbit Result : No skin irritation Result : No skin irritation Result : No skin irritation Remarks : Based on data from similar materials Calcium oxide: :	Resul	t	: No skin irritatio	n
Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials 12-Hydroxy lithium stearate: Species Species : Rabbit Result : No skin irritation Result : Species Result : Species : Based on data from similar materials Calcium oxide:	Dolor	nite:		
Result : No skin irritation Remarks : Based on data from similar materials 12-Hydroxy lithium stearate:				
Remarks : Based on data from similar materials 12-Hydroxy lithium stearate: : Species : Rabbit Result : No skin irritation Remarks : Based on data from similar materials				
12-Hydroxy lithium stearate: Species : Rabbit Result : No skin irritation Remarks : Based on data from similar materials Calcium oxide:		-		
Species : Rabbit Result : No skin irritation Remarks : Based on data from similar materials Calcium oxide:				
Result : No skin irritation Remarks : Based on data from similar materials Calcium oxide:	U. -	-		
Remarks : Based on data from similar materials Calcium oxide:				n
Calcium oxide:				
	Calci	um oxide:		
10/00			10 / 29	



Version 12.0	Revision Date: 10/20/2020	SDS Number: 115041-00020	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015	
Speci Metho Resul Rema	od t	: Rabbit : OECD Test G : Skin irritation : Based on data	uideline 404 a from similar materials	
Calci Speci Resul	es	ranched, C9 rich, alk : Rabbit : Skin irritation	yInaphthalenesulphonate):	
Rema			a from similar materials	
Cause	us eye damage/eye i es serious eye irritatio			
<u>Produ</u> Resul		: Irritation to ey	es, reversing within 21 days	
11	t	: Rabbit : No eye irritatio		
Talc:				
Speci Resul		: Rabbit : No eye irritatio	on	
Grap	hite:			
Speci		: Rabbit		
Resul Metho		: No eye irritatio : OECD Test G		
Copp	er metal powder:			
Speci		: Rabbit		
Resul	t	: No eye irritatio	on videline 105	
Metho	Da	: OECD Test G	uldeline 405	
Dolor	nite:			
Speci	es	: Rabbit		
Resul		: No eye irritatio		
Metho Rema		: OECD Test G : Based on data	uideline 405 a from similar materials	
12-H	droxy lithium steara	ite:		
Speci	-	: Rabbit		
Resul		: No eye irritatio		
Rema	irks	: Based on data	a from similar materials	



ersion 2.0	Revision Date: 10/20/2020	SDS Number: 115041-00020	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
Calciu	ım oxide:		
Specie		: Rabbit	
Result		: Irreversible effe	ects on the eve
Metho		: OECD Test Gu	
П			
Specie		ranched, C9 rich, alky : Rabbit	yInaphthalenesulphonate):
Result			es, reversing within 21 days
Rema			from similar materials
Respi	ratory or skin sens	itization	
-	ensitization		
	ause an allergic skin	reaction.	
-	ratory sensitizatior		
-	assified based on av		
<u>Comp</u>	onents:		
Distill	ates (petroleum), h	ydrotreated heavy na	phthenic:
Test T	ype	: Buehler Test	
	s of exposure	: Skin contact	
Specie	es	: Guinea pig	
Result	t	: negative	
Rema	rks	: Based on data	from similar materials
Talc:			
Route	s of exposure	: Skin contact	
Specie		: Humans	
Result	t	: negative	
Graph	nite:		
Test T		: Local lymph no	ode assay (LLNA)
	s of exposure	: Skin contact	
Specie		: Mouse	
Result		: negative	
Copp	er metal powder:		
Test T		: Maximization T	est
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Metho	d	: OECD Test Gu	uideline 406
Result	1	: negative	
Dolon	nite:		
Test T	уре	: Local lymph no	ode assay (LLNA)
Route	s of exposure	: Skin contact	• • •
Specie	es	: Mouse	
Metho	d	: OECD Test Gu	uideline 429
Result		: negative	

Genotoxicity in vivo



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Rema	rks	: Based on data	from similar materials
12-Hy	droxy lithium steara	ite:	
Test T	vpe	: Local lymph no	ode assay (LLNA)
	s of exposure	: Skin contact	()
Specie		: Mouse	
Metho	d	: OECD Test Gu	ideline 429
Result	t	: negative	
Calciu	um oxide:		
Test T	vpe	: Local lymph no	ode assay (LLNA)
	s of exposure	: Skin contact	()
Specie		: Mouse	
Metho	d	: OECD Test Gu	iideline 429
Result	t	: negative	
Rema	rks	0	from similar materials
Calciu	um bis(di C8-C10. bi	anched. C9 rich. alk	/Inaphthalenesulphonate):
Test T		: Buehler Test	,p
Route	s of exposure	: Skin contact	
Specie		: Guinea pig	
Result		: positive	
Rema		•	from similar materials
Asses	sment	: Probability or e rate in humans	vidence of low to moderate skin sensitization
	cell mutagenicity		
	assified based on ava	allable information.	
11	oonents:		
		drotreated heavy na	-
Genot	oxicity in vitro		cterial reverse mutation assay (AMES)) Test Guideline 471 e
Genot	oxicity in vivo	cytogenetic as Species: Mous	e
		Method: OECE Result: negativ	ute: Intraperitoneal injection) Test Guideline 474 re ed on data from similar materials
Talc:			
Genot	oxicity in vitro		A damage and repair, unscheduled DNA syn- nalian cells (in vitro)

: Test Type: Chromosome aberration test in vitro Species: Rat

BESTOLIFE.

rsion .0	Revision Date: 10/20/2020	SDS Number:Date of last issue: 05/06/2020115041-00020Date of first issue: 05/12/2015
		Application Route: Ingestion Result: negative
Grap	hite:	
U	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
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 viv 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
₩		
Dolor Geno	nite: toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
IJ		Remarks: Based on data from similar materials
Calci	um oxide:	
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
		Remarks: Based on data from similar materials
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
		Remarks: Based on data from similar materials
N		ranched, C9 rich, alkylnaphthalenesulphonate):



sion Revision Date: 0 10/20/2020	SDS Number: 115041-00020	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
Genotoxicity in vitro	Method: OECI Result: negativ	cterial reverse mutation assay (AMES) D Test Guideline 471 /e ed on data from similar materials
	Method: OECI Result: negativ	vitro mammalian cell gene mutation test D Test Guideline 476 ve ed on data from similar materials
	Method: OECI Result: negativ	romosome aberration test in vitro D Test Guideline 473 /e ed on data from similar materials
Carcinogenicity		
Not classified based on a	available information.	
Product:		
Carcinogenicity - Assess ment	based on DMS	illates have been classified as not carcinogeni 60 extract content < 3% (Regulation (EC) nex VI, Part 3, Note L).
	1272/2006, AN	
<u>Components:</u>	1272/2006, AN	
<u>Components:</u>		
Distillates (petroleum),	hydrotreated heavy na	
Distillates (petroleum), Species	hydrotreated heavy na : Mouse	
Distillates (petroleum), Species Application Route	hydrotreated heavy na	
Distillates (petroleum), Species	hydrotreated heavy na : Mouse : Skin contact	phthenic:
Distillates (petroleum), Species Application Route Exposure time	hydrotreated heavy na : Mouse : Skin contact : 78 weeks	phthenic:
Distillates (petroleum), Species Application Route Exposure time Method Result	hydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu	phthenic:
Distillates (petroleum), Species Application Route Exposure time Method Result Talc:	hydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative	phthenic:
Distillates (petroleum), Species Application Route Exposure time Method Result Talc: Species	hydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Mouse	phthenic: uideline 451
Distillates (petroleum), Species Application Route Exposure time Method Result Talc:	hydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative	phthenic: uideline 451
Distillates (petroleum), Species Application Route Exposure time Method Result Talc: Species Application Route	hydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Mouse : inhalation (dus	phthenic: uideline 451
Distillates (petroleum), Species Application Route Exposure time Method Result Talc: Species Application Route Exposure time Result	hydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Mouse : inhalation (dus : 2 Years	phthenic: uideline 451
Distillates (petroleum), Species Application Route Exposure time Method Result Talc: Species Application Route Exposure time Result Calcium oxide:	hydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Mouse : inhalation (dus : 2 Years	phthenic: uideline 451
Distillates (petroleum), Species Application Route Exposure time Method Result Talc: Species Application Route Exposure time Result	hydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Mouse : inhalation (dus : 2 Years : negative : Rat	phthenic: uideline 451
Distillates (petroleum), Species Application Route Exposure time Method Result Talc: Species Application Route Exposure time Result Calcium oxide: Species	hydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Mouse : inhalation (dus : 2 Years : negative	phthenic: uideline 451
Distillates (petroleum), Species Application Route Exposure time Method Result Talc: Species Application Route Exposure time Result Calcium oxide: Species Application Route Exposure time Result	hydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Mouse : inhalation (dus : 2 Years : negative : Rat : Ingestion : 104 weeks : negative	phthenic: uideline 451 t/mist/fume)
Distillates (petroleum), Species Application Route Exposure time Method Result Talc: Species Application Route Exposure time Result Calcium oxide: Species Application Route Exposure time	hydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Mouse : inhalation (dus : 2 Years : negative : Rat : Ingestion : 104 weeks : negative	phthenic: uideline 451
Distillates (petroleum), Species Application Route Exposure time Method Result Talc: Species Application Route Exposure time Result Calcium oxide: Species Application Route Exposure time Result	hydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Mouse : inhalation (dus : 2 Years : negative : Rat : Ingestion : 104 weeks : negative	phthenic: uideline 451 t/mist/fume)
Distillates (petroleum), Species Application Route Exposure time Method Result Talc: Species Application Route Exposure time Result Calcium oxide: Species Application Route Exposure time Result Remarks	hydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Mouse : inhalation (dus : 2 Years : negative : Rat : Ingestion : 104 weeks : negative	phthenic: uideline 451 t/mist/fume)
Distillates (petroleum), Species Application Route Exposure time Method Result Talc: Species Application Route Exposure time Result Calcium oxide: Species Application Route Exposure time Result Result Remarks	hydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Mouse : inhalation (dus : 2 Years : negative : Rat : Ingestion : 104 weeks : negative : Based on data	phthenic: uideline 451 t/mist/fume)
Distillates (petroleum), Species Application Route Exposure time Method Result Talc: Species Application Route Exposure time Result Calcium oxide: Species Application Route Exposure time Result Remarks Quartz: Species	hydrotreated heavy na : Mouse : Skin contact : 78 weeks : OECD Test Gu : negative : Mouse : inhalation (dus : 2 Years : negative : Rat : Ingestion : 104 weeks : negative : Based on data : Humans : inhalation (dus : positive	phthenic: uideline 451 t/mist/fume)



ersion 2.0	Revision Date: 10/20/2020	SDS Number: 115041-00020	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
Carcin ment	ogenicity - Assess-	: Positive evide tion)	ence from human epidemiological studies (inhala-
IARC	Group 1: Ca Quartz (Silica dust,	rcinogenic to humar crystalline)	ns 14808-60-7
OSHA	OSHA speci [.] Quartz (crystalline s	fically regulated care ilica)	cinogen 14808-60-7
NTP	Quartz	human carcinogen alline (Respirable S	14808-60-7 ize))
-	ductive toxicity Issified based on avail	able information.	
Comp	onents:		
Talc: Effects	on fetal development	Species: Rat	nbryo-fetal development oute: Ingestion ive
Graph	ite:		
	on fertility	reproduction/ Species: Rat Application Re	ombined repeated dose toxicity study with the developmental toxicity screening test oute: Ingestion D Test Guideline 422 ive
Effects	on fetal development	reproduction/ Species: Rat Application Re	ombined repeated dose toxicity study with the developmental toxicity screening test oute: Ingestion D Test Guideline 422 ive
Coppe	er metal powder:		
Effects	on fertility	Species: Rat Application Re Result: negation	vo-generation reproduction toxicity study oute: Ingestion ive sed on data from similar materials
Effects	on fetal development	Species: Rab	oute: Ingestion



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IJ				
Dolor	nite:			
Effect	s on fertility	:	reproduction/der Species: Rat Application Rour Method: OECD Result: negative	Test Guideline 422
Effect	s on fetal development	:	reproduction/der Species: Rat Application Rour Method: OECD Result: negative	Test Guideline 422
Calci	um oxide:			
Effect	s on fertility	:	reproduction/dev Species: Rat Application Rour Method: OECD Result: negative	Test Guideline 422
Effect	s on fetal development	:	Species: Mouse Application Rout	te: Ingestion Test Guideline 414
Calci	um bis(di C8-C10, bran	iche	ed, C9 rich, alkyl	naphthalenesulphonate):
Effect	s on fertility	:	reproduction/dev Species: Rat Application Rour Method: OECD Result: negative	Test Guideline 422
Effect	s on fetal development	:	reproduction/der Species: Rat Application Rour Method: OECD Result: negative	Test Guideline 422

STOT-single exposure

Not classified based on available information.



Components: Calcium oxide: Assessment : May cause respiratory irritation. STOT-repeated exposure Not classified based on available information. Components: 12-Hydroxy lithium stearate: Routes of exposure : Ingestion Assessment : No significant health effects observed in animals at continuous of 100 mg/kg bw or less. Quartz:		Date of last issue: 05/06 Date of first issue: 05/12	S Number: 5041-00020	-	Revision Date: 10/20/2020	ersion 2.0
Assessment : May cause respiratory irritation. STOT-repeated exposure Not classified based on available information. : Components: 12-Hydroxy lithium stearate: Routes of exposure : Routes of exposure : Ingestion Assessment : Routes of exposure : inhalation (dust/mist/fume) Target Organs : Assessment : Shown to produce significant health effects in animals at centrations of 0.02 mg/l/6h/d or less. Repeated dose toxicity : Components: : Distillates (petroleum), hydrotreated heavy naphthenic: Species : Remarks : Based on data from similar materials Copper metal powder: Species : Species : Repeited on Route : Inhalation (dust/mist/fume) Exposure time : Species : Species : NOAEL : Application Route : Species : NOAEL : Species : Species					onents:	Comp
Assessment : May cause respiratory irritation. STOT-repeated exposure Not classified based on available information. : Components: 12-Hydroxy lithium stearate: Routes of exposure : Routes of exposure : Ingestion Assessment : Assessment : No significant health effects observed in animals at conditions of 100 mg/kg bw or less. Quartz: Routes of exposure : inhalation (dust/mist/fume) Target Organs : Assessment : Shown to produce significant health effects in animals at conditions of 0.02 mg/l/6h/d or less. Repeated dose toxicity Components: Distillates (petroleum), hydrotreated heavy naphthenic: : Species : Rat NOAEL : > 0.98 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Remarks : Based on data from similar materials Copper metal powder: : > 28 Days Species : Mouse NOAEL : 1,300 mg/kg Application Route : Inhalation Species					ım oxide:	
STOT-repeated exposure Not classified based on available information. Components: 12-Hydroxy lithium stearate: Routes of exposure : Ingestion Assessment : No significant health effects observed in animals at comtions of 100 mg/kg bw or less. Quartz: Routes of exposure : Routes of exposure : Inaget Organs : Lungs Assessment : Shown to produce significant health effects in animals a centrations of 0.02 mg/l/6h/d or less. Repeated dose toxicity Components: Distillates (petroleum), hydrotreated heavy naphthenic: Species : Remarks : Based on data from similar materials Copper metal powder: Species : Species : Remarks : Dotomite: Species : NOAEL : NOAEL : NOAEL : NOAEL : NOAEL :		instant indiction				U .
Not classified based on available information. Components: 12-Hydroxy lithium stearate: Routes of exposure : Ingestion Assessment : No significant health effects observed in animals at continuous of 100 mg/kg bw or less. Quartz: Routes of exposure : Target Organs : Assessment : Shown to produce significant health effects in animals a centrations of 0.02 mg/l/6h/d or less. Repeated dose toxicity Components: Distillates (petroleum), hydrotreated heavy naphthenic: Species : Remarks : Remarks : Polication Route : inhalation (dust/mist/fume) Exposure time : 28 Days Remarks : Based on data from similar materials Copper metal powder: Species : Reperices : NOAEL : NOAEL : NOAEL : Species : Mouse		iratory irritation.	May cause respi	÷	sment	Asses
Semponents: 12-Hydroxy lithium stearate: Routes of exposure : Assessment : No significant health effects observed in animals at continuous of 100 mg/kg bw or less. Quartz: Routes of exposure : Routes of exposure : inhalation (dust/mist/fume) Target Organs : Lungs Assessment : Shown to produce significant health effects in animals a centrations of 0.02 mg/l/6h/d or less. Repeated dose toxicity Components: Distillates (petroleum), hydrotreated heavy naphthenic: Species : Remarks : Based on data from similar materials Copper metal powder: Species : Species : Ret NOAEL :> 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : Species : NOAEL :> 2 mg/m³ Application Route : Species : Re				ire	-repeated exposure	STOT
12-Hydroxy lithium stearate: Routes of exposure : Ingestion Assessment : No significant health effects observed in animals at conditions of 100 mg/kg bw or less. Quartz: Routes of exposure : inhalation (dust/mist/fume) Target Organs : Lungs Assessment : Shown to produce significant health effects in animals a centrations of 0.02 mg/l/6h/d or less. Repeated dose toxicity Components: Distillates (petroleum), hydrotreated heavy naphthenic: Species : Rat NOAEL : > 0.98 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Remarks : Based on data from similar materials Copper metal powder: : > = 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Remarks : Based on data from similar materials Dolomite: : : Species : Mouse NOAEL : 1,300 mg/kg			information.	available	assified based on ava	Not cl
Routes of exposure : Ingestion Assessment : No significant health effects observed in animals at continuous of 100 mg/kg bw or less. Quartz: Routes of exposure : inhalation (dust/mist/fume) Target Organs : Lungs Assessment : Shown to produce significant health effects in animals a centrations of 0.02 mg/l/6h/d or less. Repeated dose toxicity Components: Distillates (petroleum), hydrotreated heavy naphthenic: Species Species : Rat NOAEL : > 0.98 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Remarks : Based on data from similar materials Copper metal powder: : > = 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Dolomite: : > = 2 mg/m³ Species : Mouse NOAEL : 1,300 mg/kg Application Route : Ingestion Exposure time : <t< td=""><td></td><td></td><td></td><td></td><td>onents:</td><td>Comp</td></t<>					onents:	Comp
Routes of exposure : Ingestion Assessment : No significant health effects observed in animals at continuous of 100 mg/kg bw or less. Quartz: Routes of exposure : inhalation (dust/mist/fume) Target Organs : Lungs Assessment : Shown to produce significant health effects in animals a centrations of 0.02 mg/l/6h/d or less. Repeated dose toxicity Components: Distillates (petroleum), hydrotreated heavy naphthenic: Species Species : Rat NOAEL : > 0.98 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Remarks : Based on data from similar materials Copper metal powder: : > = 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Dolomite: : > = 2 mg/m³ Species : Mouse NOAEL : 1,300 mg/kg Application Route : Ingestion Exposure time : <t< td=""><td></td><td></td><td></td><td>arate:</td><td>droxy lithium steara</td><td>12-Hy</td></t<>				arate:	droxy lithium steara	12-Hy
Assessment : No significant health effects observed in animals at continuous of 100 mg/kg bw or less. Quartz: : Routes of exposure : inhalation (dust/mist/fume) Target Organs : Lungs : Assessment :: Shown to produce significant health effects in animals at contrations of 0.02 mg/l/6h/d or less. Repeated dose toxicity Components: Distillates (petroleum), hydrotreated heavy naphthenic: Species : Rat NOAEL :> 0.98 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Remarks : Based on data from similar materials Copper metal powder: Species : Rat NOAEL :> > 2.9 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Remarks : Based on data from similar materials Dolomite: Species : Mouse NOAEL :> > 2 mg/m ³ Application Route : Ingestion Exposure time : 28 Days Polomite: Species : Mouse NOAEL :1,300 mg/kg Application Route : Ingestion Exposure time : 28 Days Remarks : Basee			Ingestion		-	_
tions of 100 mg/kg bw or less. Quartz: Routes of exposure : inhalation (dust/mist/fume) Target Organs : Lungs Assessment : Shown to produce significant health effects in animals a centrations of 0.02 mg/l/6h/d or less. Repeated dose toxicity Components: Distillates (petroleum), hydrotreated heavy naphthenic: Species : Rat NOAEL : > 0.98 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Remarks : Based on data from similar materials Copper metal powder: > 2 mg/m³ Species : Rat NOAEL : > 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Dolomite: : > 2 mg/m³ Species : Rat NOAEL : > 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Dolomite: : Species : Mouse NOAEL : 1,300 mg/kg Application Route : Ingestion	animals at concentr	ealth effects observed in ar	•	:		
Routes of exposure : inhalation (dust/mist/fume) Target Organs : Lungs Assessment : Shown to produce significant health effects in animals a centrations of 0.02 mg/l/6h/d or less. Repeated dose toxicity Components: Distillates (petroleum), hydrotreated heavy naphthenic: Species : Rat NOAEL :> 0.98 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Renarks : Based on data from similar materials Copper metal powder: Species : Rat NOAEL :> 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Defente: :: 28 Days Species : Rat NOAEL : >= 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Dolomite: : Species : Mouse NOAEL : 1,300 mg/kg Application Route : Ingestion Exposure time : 28 Days <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Routes of exposure : inhalation (dust/mist/fume) Target Organs : Lungs Assessment : Shown to produce significant health effects in animals a centrations of 0.02 mg/l/6h/d or less. Repeated dose toxicity Components: Distillates (petroleum), hydrotreated heavy naphthenic: Species : Rat NOAEL :> 0.98 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Renarks : Based on data from similar materials Copper metal powder: Species : Rat NOAEL :> 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Defente: :: 28 Days Species : Rat NOAEL : >= 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Dolomite: : Species : Mouse NOAEL : 1,300 mg/kg Application Route : Ingestion Exposure time : 28 Days <td></td> <td></td> <td></td> <td></td> <td>7.</td> <td></td>					7.	
Target Organs : Lungs Assessment : Shown to produce significant health effects in animals a centrations of 0.02 mg/l/6h/d or less. Repeated dose toxicity Components: Distillates (petroleum), hydrotreated heavy naphthenic: Species : Rat NOAEL : > 0.98 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Remarks : Based on data from similar materials Copper metal powder: Species : Rat NOAEL :> = 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Dolomite: : : Species : Mouse NOAEL : 1,300 mg/kg Application Route : Ingestion Exposure time : 28 Days Remarks : Based on data from similar materials I2-Hydroxy lithium stearate: : Based on data from similar materials		(mist/fume)	inhalation (duct/r			
Assessment : Shown to produce significant health effects in animals a centrations of 0.02 mg/l/6h/d or less. Repeated dose toxicity Components: Distillates (petroleum), hydrotreated heavy naphthenic: Species Species : Rat NOAEL : > 0.98 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Remarks : Based on data from similar materials Copper metal powder: Species : Species : Rat NOAEL : >= 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Dolomite: : : Species : Mouse NOAEL : 1,300 mg/kg Application Route : Ingestion Exposure time : 28 Days Remarks : Based on data from similar materials IDelomite: : : Species : Mouse NOAEL :		misulume)			t Organs	Targe
centrations of 0.02 mg//6h/d or less. Repeated dose toxicity Components: Distillates (petroleum), hydrotreated heavy naphthenic: Species : Repeated dose toxicity Species MoAEL : Application Route : Application Route : Proper metal powder: : Species : Remarks : Based on data from similar materials Copper metal powder: Species : NOAEL :> 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Dolomite: Species : MOAEL : Species : Mouse : NOAEL : Species : Mouse : NOAEL : Species : Mouse : NOAEL : Species <td>ects in animals at cou</td> <td>ce significant health effects</td> <td></td> <td>:</td> <td></td> <td></td>	ects in animals at cou	ce significant health effects		:		
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Distillates (petroleum), hydrotreated heavy naphthenic: Species : Rat NOAEL : > 0.98 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Remarks : Based on data from similar materials Copper metal powder: . Species : Rat NOAEL : >= 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Dolomite: . >= 2 mg/m³ Species : Mouse NOAEL : 1,300 mg/kg Application Route : 1,300 mg/kg Application Route : 1,300 mg/kg Application Route : 1ngestion Exposure time : 28 Days Remarks : Based on data from similar materials Ital: : : Species : : Remarks : Based on data from similar materials Ital: :				,	ated dose toxicity	Repea
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Copper metal powder: Species : Rat NOAEL : >= 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Dolomite: . . Species : Mouse NOAEL : 1,300 mg/kg Application Route : Ingestion Exposure time : 28 Days Remarks : Based on data from similar materials 12-Hydroxy lithium stearate: . Species : Rat		rom similar materials		÷		
Species : Rat NOAEL : >= 2 mg/m³ Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Dolomite: . . Species : Mouse NOAEL : 1,300 mg/kg Application Route : Ingestion Exposure time : 28 Days Remarks : Based on data from similar materials 12-Hydroxy lithium stearate: . Species : Remarks : Reprices : Remarks : Based on data from similar materials			Dased on data in	•	110	
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Exposure time : 28 Days Dolomite:				:		
Dolomite: Species : Mouse NOAEL : 1,300 mg/kg Application Route : Ingestion Exposure time : 28 Days Remarks : Based on data from similar materials 12-Hydroxy lithium stearate: : Rat		mist/fume)	•	÷		
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NOAEL : 1,300 mg/kg Application Route : Ingestion Exposure time : 28 Days Remarks : Based on data from similar materials 12-Hydroxy lithium stearate: : Rat			Mouse	:		
Application Route : Ingestion Exposure time : 28 Days Remarks : Based on data from similar materials 12-Hydroxy lithium stearate: : Rat			1,300 mg/kg	:		
Exposure time : 28 Days Remarks : Based on data from similar materials 12-Hydroxy lithium stearate: : Rat			Ingestion	:	ation Route	Applic
12-Hydroxy lithium stearate: Species : Rat			28 Days	:		
Species : Rat		rom similar materials	Based on data fr	:	rks	Rema
				arate:	droxy lithium steara	12-Hy
			Rat	:	es	Speci
			> 88 mg/kg	:	ïL	NOAE
Application Route : Ingestion				:		
Exposure time : 90 Days			90 Days	:	ure time	Expos



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Calciu	um oxide:					
Species NOAEL Application Route Exposure time Method		: 90 Days	 >= 0.399 mg/l inhalation (dust/mist/fume) 			
Calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate):						
	L L ation Route ure time	: Rat : 100 mg/kg : 300 mg/kg : Ingestion : 90 Days : OECD Test G	uideline 408			
Quart Specie LOAE Applic Rema	es L ation Route		t/mist/fume) ice(s) are inextricably bound in the product and ot contribute to a dust inhalation hazard.			

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 1,064,120 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)): 16,410 mg/l Exposure time: 96 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
		EC50 (Daphnia magna (Water flea)): 32,820 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): 110,268 mg/l Exposure time: 96 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials



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NOEC (Selenastrum capricornutum (green algae)): 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials

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				
	Talc:						
I	Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 100,000 mg/l Exposure time: 24 h				
	Graphite:						
	Toxicity to fish	:	LL50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203				
	Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202				
	Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201				



ersion .0	Revision Date: 10/20/2020	-	9S Number: 5041-00020	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
			100 mg/l Exposure time: 72	Vater Accommodated Fraction
Toxici	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/l
Dolon				
Toxici	ty to fish	:	Exposure time: 96 Method: OECD To Remarks: No toxi	
	ty to daphnia and other c invertebrates	:	Exposure time: 48 Method: OECD To Remarks: No toxic	
Toxicil plants	ty to algae/aquatic	:	Exposure time: 72 Method: OECD T	
П 12-Нv	droxy lithium stearate			
U L -	ty to fish	:	LL50 (Oncorhync) Exposure time: 96 Method: OECD To	
	ty to daphnia and other c invertebrates	:	EL50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicil plants	ty to algae/aquatic	:	NOELR (Pseudok 100 mg/l Exposure time: 72 Method: OECD To	
Calciu	ım oxide:			
	ty to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD To	



ersion 2.0	Revision Date: 10/20/2020		9S Number: 5041-00020	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
			Remarks: Based	on data from similar materials
	ity to daphnia and other ic invertebrates	:	Exposure time: 96 Method: OECD Te	
Toxici plants	ity to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
			mg/l Exposure time: 72 Method: OECD To	
	ity to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 14	crangon (shrimp)): > 1 mg/l ł d on data from similar materials
Toxici	ity to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 Method: OECD To Remarks: Based o	h
Calci	um bis(di C8-C10, bran	che	ed, C9 rich, alkyln	aphthalenesulphonate):
Toxici	ity to fish	:	Exposure time: 96 Test substance: V Method: OECD Te	Vater Accommodated Fraction
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Test substance: V Method: OECD Te	Vater Accommodated Fraction
Toxici plants	ity to algae/aquatic	:	mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction
			mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction



ersion 2.0	Revision Date: 10/20/2020	-	0S Number: 5041-00020	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2 Test substance:	a magna (Water flea)): 2.2 mg/l 21 d Water Accommodated Fraction Fest Guideline 211
Toxici	ty to microorganisms	:		
Quart	z:			
Ecoto	oxicology Assessment			
Acute	aquatic toxicity	:	No toxicity at the	limit of solubility.
Chror	ic aquatic toxicity	:	No toxicity at the	limit of solubility.
II Persi	stence and degradabili	ty		
Produ	uct:			
	gradability	:	Result: Readily I Remarks: Based	biodegradable. I on data from similar materials
Com	oonents:			
Distil	lates (petroleum), hydr	otro	eated heavy nap	hthenic:
Biode	gradability	:	Biodegradation: Exposure time: 2	
	droxy lithium stearate			
- UL	gradability	:	Result: Readily Biodegradation: Exposure time: 2 Method: OECD	78 %
	um bis(di C8-C10, bran	che	ed. C9 rich. alkvl	naphthalenesulphonate):
	gradability	:	Result: Not read	ily biodegradable. I on data from similar materials
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
Calci	um bis(di C8-C10, bran	che	ed, C9 rich, alkyl	naphthalenesulphonate):
Partiti	on coefficient: n-		log Pow: > 6.6	
Mobil	ity in soil ta available			
110 00				

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Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

UNRTDG UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper metal powder)
Class Packing group Labels	:	9 III 9
IATA-DGR UN/ID No. Proper shipping name	:	UN 3077 Environmentally hazardous substance, solid, n.o.s. (Copper metal powder)
Class Packing group Labels Packing instruction (cargo aircraft)	:	9 9 III Miscellaneous 956
Packing instruction (passen- ger aircraft) Environmentally hazardous	:	956 yes
IMDG-Code UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper metal powder)
Class Packing group Labels EmS Code Marine pollutant		9 III 9 F-A, S-F 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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Domestic regulation

49 CFR

UN/ID/NA number	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Copper metal powder)
Class	:	9
Packing group	:	III
Labels	:	CLASS 9
ERG Code	:	171
Marine pollutant	:	yes(Copper metal powder)
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	83056

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	:	Respiratory or sk Serious eye dam	in sensitization age or eye irritation	
SARA 313	:	0	mponents are subject t ARA Title III, Section 3	1 0
		Copper metal powder	7440-50-8	>= 5 - < 10 %

US State Regulations

Pennsylvania Right To Know

T C P C	Distillates (petroleum), hydrotreated heavy naphthenic Falc Graphite Copper metal powder Polytetrafluoroethylene Dolomite Calcium oxide Quartz	64742-52-5 14807-96-6 7782-42-5 7440-50-8 9002-84-0 16389-88-1 1305-78-8 14808-60-7
G	Juartz	14808-60-7



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WAR				rtz, which is/are known to vw.P65Warnings.ca.gov.
Calif	ornia List of Hazardo	ous Substances		
	Distillates (petro Talc Graphite Copper metal po Calcium oxide	leum), hydrotreated he owder	avy naphthenic	64742-52-5 14807-96-6 7782-42-5 7440-50-8 1305-78-8
Calif	ornia Permissible Ex	posure Limits for Ch	emical Contaminar	nts
	Distillates (petro Talc Graphite Copper metal po Calcium oxide Quartz	leum), hydrotreated he	avy naphthenic	64742-52-5 14807-96-6 7782-42-5 7440-50-8 1305-78-8 14808-60-7
Calif	ornia Regulated Car	cinogens		
I	Quartz	U		14808-60-7
		: All chemical su	s of this product are ubstances in this pro	on the Canadian DSL duct are either listed on the
AICS		exemption.	listed or exempt.	ce with a TSCA Inventory

SECTION 16. OTHER INFORMATION

Further information

OSHA Z-3 / TWA



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NFPA	A 704:		HMIS® IV:	
	Flammability		HEALTH	/ 2
	1		FLAMMABILITY	1
Hea		Instability	PHYSICAL HAZARD	0
	Special hazard		HMIS® ratings are based on a scale, with 0 representing min ards or risks, and 4 representic cant hazards or risks. The "*" a chronic hazard, while the "/" the absence of a chronic hazard.	nimal haz- ing signifi- represents ' represents
Full t	ext of other abbreviat	ions		
	H REL A CARC	: USA. NIOSH : OSHA Specif	Threshold Limit Values (TLV) Recommended Exposure Limit fically Regulated Chemicals/Car ational Exposure Limits (OSHA) traminants	rcinogens
OSHA	A Z-3		ational Exposure Limits (OSHA)	- Table Z-3 Min-
	H / TWA H REL / TWA	: 8-hour, time-veighte	weighted average ed average concentration for up ng a 40-hour workweek	to a 10-hour
NIOS	H REL / ST	: STEL - 15-mi	inute TWA exposure that should uring a workday	d not be exceeded
	A CARC / PEL A Z-1 / TWA	: Permissible e	exposure limit (PEL) veighted 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-

: 8-hour time weighted average



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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 compile the Material Safety	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-
Data Sheet		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 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.

US / Z8