

Version 9.0	Revision Date: 10/30/2020	SDS Numbe 110794-0002			
SECTIO	N 1. IDENTIFICATION				
Proc	Product name		FREE		
SDS	SDS-Identcode				
Mar	ufacturer or supplier's	details			
	Company name of supplier Address		Corporation nco Drive 75061,		
	Telephone		9164/972-865-8961		
	Telefax		3047		
Eme	Emergency telephone		REC U.S.: 800-424-9300, International 703-527-3887 s/7 days)		
E-m	E-mail address		www.bestolife.com		
Rec	ommended use of the	chemical and	restrictions on use		
Rec	ommended use	Offshore	l use Compound (Pipe Dope) and Jacking grease for use in industries without offshore industries)		
Res	Restrictions on use :		se 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
0.10	ia soi	01011101110	,

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

eempenende .						
Chemical name	CAS-No.	Concentration (% w/w)				
Distillates (petroleum), hydrotreated	64742-52-5	>= 30 - < 50				
heavy naphthenic						
Graphite	7782-42-5	>= 20 - < 30				
Talc	14807-96-6	>= 10 - < 20				
Talc Dolomite	16389-88-1	>= 1 - < 5				
Calcium oxide	1305-78-8	>= 1 - < 5				
Quartz	14808-60-7	>= 1 - < 5				
12-Hydroxy lithium stearate	7620-77-1	>= 1 - < 5				
A. ((

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 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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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 Fluorine compour Metal oxides	nds	
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 d so. Evacuate area.		
Special protective equipment for 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 Conditions for safe storage	:	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 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 sale storage	•	Store in accordance with the particular national regulations.



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Mater	rials to avoid	: Do not store w Strong oxidizin	ith the following product types: g 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/m ³	OSHA Z-1
		TWA (Inhal- able particu- late matter)	5 mg/m ³	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/m ³	ACGIH
		TWA (Dust)	15 Million particles per cubic foot	OSHA Z-3
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/m ³	ACGIH
Dolomite	16389-88-1	TWA (Res- pirable)	5 mg/m³ (Calcium car- bonate)	NIOSH REL
		TWA (total)	10 mg/m ³ (Calcium car- bonate)	NIOSH REL
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
Quartz	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
		TWA (respir- able)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (Res- pirable par- ticulate mat-	0.025 mg/m³ (Silica)	ACGIH



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11		1	ter)	I	I		
			TWA (Res- pirable dust)	0.05 mg/m ³ (Silica)	NIOSH REL		
			PEL (respir- able)	0.05 mg/m ³	OSHA CAR		
12-Hy	droxy lithium stearate	7620-77-1	TWÁ (Inhal- able particu- late matter)	10 mg/m ³	ACGIH		
			TWA (Res- pirable par- ticulate mat- ter)	3 mg/m ³	ACGIH		
	e substance(s) are ine ust inhalation hazard		n the product a	nd therefore do n	ot contribute		
	Quartz						
Engin	eering measures	Dust formation product. In a limitations of workplaces h assessment. Particulates l dust, 5 mg/m Particles (ins	on may be relevand dition to substations of lave to be consider Relevant limits in Not Otherwise R 3 - respirable frational oluble or poorly 3 mg/m3 - respirational	e concentrations. ant in the processir nce-specific OELs of particulates in th dered in workplace nclude: OSHA PE egulated of 15 mg action; and ACGIH soluble) Not Other able particles, 10 r	, general le air at risk L for /m3 - total TWA for wise		
Perso	nal protective equipr	nent					
Respi	ratory protection	maintain vap concentratior unknown, ap	or exposures be ns are above rec propriate respira	entilation is recommended low recommended commended limits of tory protection sho lations (29 CFR 19 respirators. Protect	l limits. Where or are ould be worn.		

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 resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
Eye protection	: Wear the following personal protective equipment: Safety goggles



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Skin and body protection		resistance dat potential. Skin contact m clothing (glove	iate protective clothing based on chemical a and an assessment of the local exposure s, aprons, boots, etc). chemical is likely during typical use, provide
riygic		eye flushing sy working place. When using do	o not eat, drink or smoke. nated clothing before re-use.

Appearance	:	Viscous semi-solid
Color	:	black
Odor	:	Petroleum
Odor Threshold	:	No data available
рН	:	Not applicable (not an aqueous solution)
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	>= 392 °F / >= 200 °C
		Method: ASTM D 92, Cleveland open cup Distillates (petroleum), 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
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



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De	ecomposition temperature	:	No data available	e
Vi	scosity Viscosity, kinematic	:	Not applicable	
Flo	ow time	:	No data available	e
Ex	plosive properties	:	Not explosive	
	xidizing properties olecular weight	:	The substance o	r mixture is not classified as oxidizing.
Pa	article size	:	No data available	9

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	:	No hazardous decomposition products are known.
products		

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 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



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		Method: OECD Test Guideline 402 Remarks: Based on data from similar materials
Grap	hite:	
- UL	e 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
Talc:		
Acute	e oral toxicity	: LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials
Doloi	mite:	
Acute	e oral toxicity	 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 420 Assessment: The substance or mixture has no acute oral tox icity Remarks: Based on data from similar materials
Acute	inhalation toxicity	 LC50 (Rat): > 3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity Remarks: Based on data from similar materials
Acute	e dermal toxicity	 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on data from similar materials
Calci	um oxide:	
	e oral toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 425
Acute	inhalation toxicity	: (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 436 Remarks: Based on data from similar materials
Acute	e dermal toxicity	 LD50 (Rabbit): > 2,500 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity



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II		Remarks: Based on data from similar materials
Quar		
Acute	oral toxicity	: LD50 (Rat): > 5,000 mg/kg
12-Hy	/droxy lithium steara	ite:
Acute	e oral toxicity	 LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral t icity
Skin	corrosion/irritation	
Not cl	lassified based on ava	ilable information.
<u>Com</u>	ponents:	
Distil	lates (petroleum), hy	drotreated heavy naphthenic:
Speci		: Rabbit
Resu		: No skin irritation
Rema	arks	: Based on data from similar materials
Grap	hite:	
Speci	es	: Rabbit
Metho		: OECD Test Guideline 404
Resu	lt	: No skin irritation
Talc:		
Speci		: Rabbit
Resu	lt	: No skin irritation
Doloi	mite:	
Speci	es	: Rabbit
Metho	bd	: OECD Test Guideline 404
Resu		: No skin irritation
Rema	arks	: Based on data from similar materials
Calci	um oxide:	
Speci		: Rabbit
Metho		: OECD Test Guideline 404
Resu		 Skin irritation Based on data from similar materials
Rema	arks	: Based on data from similar materials
	/droxy lithium steara	ite:
Speci		: Rabbit
Resu		: No skin irritation
Rema	arks	: Based on data from similar materials

Serious eye damage/eye irritation

Causes serious eye irritation.



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Com	oonents:			
11		drotr	opted beauty par	abthania
U L	lates (petroleum), hy	urour		Shtheme.
Speci Resul			Rabbit No eye irritatior	
Rema		:		from similar materials
		•	Dasca on dala	nom similar materials
Grap	hite:			
Speci		:	Rabbit	
Resul		:	No eye irritatior	
Metho	bd	:	OECD Test Gu	ideline 405
Talc:				
Speci	es		Rabbit	
Resul		:	No eye irritatior	ı
			,	
Dolor				
Speci		:	Rabbit	
Resul		:	No eye irritation	
Metho		:	OECD Test Gu	
Rema	irks	:	Based on data	from similar materials
Calci	um oxide:			
Speci			Rabbit	
Resul			Irreversible effe	ects on the eye
Metho	bd	:	OECD Test Gu	ideline 405
12-H	droxy lithium stear	ate:		
Speci	-		Rabbit	
Resul		:	No eye irritatior	1
Rema			•	from similar materials
••				
Resp	iratory or skin sensi	tizatio	on	
•	sensitization			
	assified based on ava	ailable	information.	
-	iratory sensitization assified based on ava	ailable	information.	
Comp	oonents:			
	lates (petroleum), hy	/drotr	eated heavy nap	ohthenic:
Distil	Гуре	:	Buehler Test	
UL.			Skin contact	
Test	es of exposure	-	On of the other	
Test		:	Guinea pig	
Test T Route	es t	:	Guinea pig negative	from similar materials

Graphite:

: Local lymph node assay (LLNA)



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Route	es of exposure	: Skin contac	t
Speci		: Mouse	-
Resul		: negative	
II.			
Talc:			
	es of exposure	: Skin contac	t
Speci		: Humans	
Resul	t	: negative	
Dolor	nite:		
Test 1		: Local lymph	n node assay (LLNA)
	s of exposure	: Skin contac	
Speci		: Mouse	
Metho		: OECD Test	Guideline 429
Resul		: negative	
Rema			ata from similar materials
	um oxide:		
Test 7			
	s of exposure	: Skin contac	n node assay (LLNA)
Speci		: Mouse	
Metho			Guideline 429
Resul			Guideline 429
Rema		: negative	ata from similar materials
UL -	droxy lithium stear		
Test 7			n node assay (LLNA)
	es of exposure	: Skin contac	t
Speci		: Mouse	
Metho			Guideline 429
Resul	t	: negative	
Germ	cell mutagenicity		
	assified based on ava	ailable information.	
<u>Comp</u>	oonents:		
Distil	lates (petroleum), h	drotreated heavy	naphthenic:
Geno	toxicity in vitro	: Test Type:	Bacterial reverse mutation assay (AMES)
11	-		ECD Test Guideline 471
		Result: neg	ative
Geno	toxicity in vivo	: Test Type:	Mammalian erythrocyte micronucleus test (in vi
11	-	cytogenetic	
11		Species: M	
11			Route: Intraperitoneal injection
11			CD Test Guideline 474
11		Result: neg	
11			ased on data from similar materials
J			



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Geno	toxicity in vitro	M		erial reverse mutation assay (AMES) Test Guideline 471
		M		ro mammalian cell gene mutation test Test Guideline 476
		M		mosome aberration test in vitro Test Guideline 473
UL I	toxicity in vitro	th		damage and repair, unscheduled DNA sy alian cells (in vitro)
Genot	toxicity in vivo	Sp Ap	est Type: Chro becies: Rat oplication Rout esult: negative	
Dolor	nite:			
Genot	toxicity in vitro	M Re	ethod: OECD	erial reverse mutation assay (AMES) Test Guideline 471 I on data from similar materials
	um oxide: toxicity in vitro	M		erial reverse mutation assay (AMES) Test Guideline 471
		M Re	ethod: OECD sult: negative	mosome aberration test in vitro Test Guideline 473 I on data from similar materials
		M Re	ethod: OECD	ro mammalian cell gene mutation test Test Guideline 476 I on data from similar materials

Not classified based on available information.

Product:

Carcinogenicity - Assess- ment	:	Petroleum distillates have been classified as not carcinogenic based on DMSO extract content < 3% (Regulation (EC)
		1272/2008, Annex VI, Part 3, Note L).



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<u>Com</u> r	oonents:		
Distil	lates (petroleum), hy	drotreated heavy na	nhthenic
Speci		: Mouse	
	cation Route	: Skin contact	
	sure time	: 78 weeks	
Metho		: OECD Test G	uideline 451
Resul		: negative	
Talc:			
Speci	es	: Mouse	
	cation Route	: inhalation (dus	t/mist/fume)
Expos	sure time	: 2 Years	
Resul	t	: negative	
Calci	um oxide:		
Speci	es	: Rat	
	cation Route	: Ingestion	
	sure time	: 104 weeks	
Resul		: negative	×
Rema	irks	: Based on data	from similar materials
Quart	z:		
Speci		: Humans	
	cation Route	: inhalation (dus	t/mist/fume)
Resul		: positive	
Rema	irks		nce(s) are inextricably bound in the product and ot contribute to a dust inhalation hazard.
Carcir ment	nogenicity - Assess-	: Positive evider tion)	nce from human epidemiological studies (inhal
IARC		arcinogenic to human	
	Quartz (Silica dust	, crystalline)	14808-60-7
OSH/		cifically regulated carc	
	Quartz (crystalline	silica)	14808-60-7
NTP	Known to b		
	Quartz	e human carcinogen	14808-60-7
		stalline (Respirable Si	
-	oductive toxicity assified based on ava	ilable information	
	oonents:		
Grap			
U L '	s on fertility		mbined repeated dose toxicity study with the evelopmental toxicity screening test



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Effe	cts on fetal development	:		est Guideline 422 ned repeated dose toxicity study with the elopmental toxicity screening test : Ingestion
II Talc	:: cts on fetal development	:	Test Type: Embry	o-fetal development
		•	Species: Rat Application Route Result: negative	
	omite:			
UL.	cts on fertility	:	reproduction/deve Species: Rat Application Route Method: OECD To Result: negative	
Effe	cts on fetal development	:	reproduction/deve Species: Rat Application Route Method: OECD To Result: negative	
	cium oxide:			
	cts on fertility	:	reproduction/deve Species: Rat Application Route Method: OECD To Result: negative	
Effe	cts on fetal development	:	Test Type: Embry Species: Mouse Application Route Method: OECD To Result: negative	

STOT-single exposure

Not classified based on available information.



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<u>Com</u>	oonents:		
	um oxide:		
Asses			spiratory irritation.
Asses	Sinen	. May cause re:	
STOT	-repeated exposure		
Not cl	assified based on av	ailable information.	
Comp	oonents:		
Quart	tz:		
Route	es of exposure	: inhalation (due	st/mist/fume)
	et Organs	: Lungs	
Asses	ssment		duce significant health effects in animals at co
II		centrations of	0.02 mg/l/6h/d or less.
12-Hv	/droxy lithium stear	ate:	
	es of exposure	: Ingestion	
Asses	ssment		health effects observed in animals at concent
		tions of 100 m	g/kg bw or less.
Repe	ated dose toxicity		
<u>Com</u>	<u>oonents:</u>		
Distil	lates (petroleum), h	ydrotreated heavy na	aphthenic:
Speci		: Rat	
NOAE		: > 0.98 mg/l	
Applic	cation Route	: inhalation (due	st/mist/fume)
Expos	sure time	: 28 Days	
Rema	arks	: Based on data	a from similar materials
Dolor	nite:		
Speci		: Mouse	
NOAE		: 1,300 mg/kg	
	cation Route	: Ingestion	
	sure time	: 28 Days	
Rema			a from similar materials
Calci	um oxide:		
Speci	es	: Rat	
NOAE		: >= 0.399 mg/l	
	cation Route	: inhalation (due	
	sure time	: 90 Days	· · · · · · · · · · · · · · · · · · ·
Metho		: OECD Test G	uideline 413
Quart	7.		
Speci		: Humans	
LOAE		: 0.053 mg/m^3	
	cation Route	: inhalation (du	st/mist/fume)



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Rema	rks		tance(s) are inextricably bound in the product and onot contribute to a dust inhalation hazard.
12-Hy	droxy lithium steara	ite:	
Specie	es	: Rat	
NOAE	EL	: > 88 mg/kg	
Applic	cation Route	: Ingestion	
Expos	sure time	: 90 Days	

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

D	Distillates (petroleum), hydrotreated heavy naphthenic:							
	oxicity 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					
	oxicity to daphnia and other quatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Remarks: Based on data from similar materials					
	oxicity to algae/aquatic lants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials					
а	oxicity to daphnia and other quatic invertebrates (Chron- toxicity)	:	NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Remarks: Based on data from similar materials					
T	oxicity to microorganisms	:	NOEC: > 1.93 mg/l Exposure time: 10 min Remarks: Based on data from similar materials					
∬g	Graphite:							
	oxicity to fish	:	LL50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203					
	oxicity to daphnia and other quatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202					

SAFETY DATA SHEET



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Toxic plants	ity to algae/aquatic s		mg/l Exposure time: 72	Vater Accommodated Fraction
			100 mg/l Exposure time: 72	Vater Accommodated Fraction
Toxic	ity to microorganisms	:	EC50: > 1,012.5 r Exposure time: 3 Method: OECD Te	h
u	ity to fish	:	LC50 (Brachydan Exposure time: 24	io rerio (zebrafish)): > 100,000 mg/l 1 h
Doloi	mite			
UL.	ity to fish	:	Exposure time: 96 Method: OECD Te Remarks: No toxic	
	ity to daphnia and other tic invertebrates	:	Exposure time: 48 Method: OECD Te Remarks: No toxic	
Toxic plants	ity to algae/aquatic S	:	Exposure time: 72 Method: OECD Te	
	um oxide:			
u	ity to fish	:	Exposure time: 96 Method: OECD Te	
	ity to daphnia and other tic invertebrates	:	Exposure time: 96 Method: OECD Te	
Toxic plants	ity to algae/aquatic S	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	



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			Remarks: Based	on data from similar materials
			mg/l Exposure time: 72 Method: OECD To	
aqua	city to daphnia and other atic invertebrates (Chron- kicity)	:	Exposure time: 14	crangon (shrimp)): > 1 mg/l l d on data from similar materials
Τοχί	city to microorganisms	:	Exposure time: 3 Method: OECD Te	h
Qua	rtz:			
	oxicology Assessment			
Acut	e aquatic toxicity	•	No toxicity at the	imit of solubility.
Chro	nic aquatic toxicity	:	No toxicity at the	imit of solubility.
∭12-Н	ydroxy lithium stearate	:		
Τοχί	city to fish	:	LL50 (Oncorhync) Exposure time: 96 Method: OECD To	
	city to daphnia and other tic invertebrates	:	EL50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plant	city to algae/aquatic s	:	NOELR (Pseudok 100 mg/l Exposure time: 72 Method: OECD Te	
Pers	istence and degradabil	ity		
Com	ponents:			
8.8.	illates (petroleum), hydr	otr	eated heavy naph	thenic:
Biod	egradability	:	Result: Not readily Biodegradation: 2 Exposure time: 28 Method: OECD To	2 - 4 %
	ydroxy lithium stearate	:		
Biod	egradability	:	Result: Readily bi Biodegradation: 7 Exposure time: 28 Method: OECD To	78 %



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II			
Bio	accumulative potential		
No	data available		
Mol	oility in soil		
No	data available		
Oth	er adverse effects		
No	data available		
SECTIO	N 13. DISPOSAL CONS	DERATIONS	
Dis	posal methods		
	ste from residues	•	accordance with local regulations.
Cor	ntaminated packaging	: Empty contai	ners should be taken to an approved waste

vaste from residues		Dispose of in accordance with local regulations.
Contaminated packaging		Empty containers should be taken to an approved waste
		handling site for recycling or disposal.
		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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

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

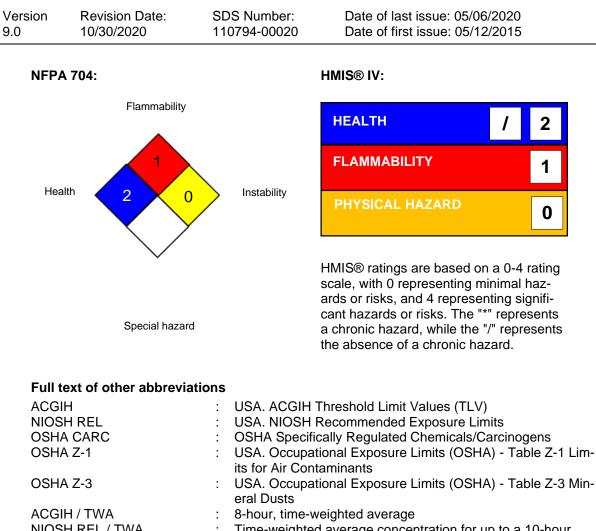


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SAR	A 313	known CAS nu	: This material does not contain any chemical components wi known CAS numbers that exceed the threshold (De Minimis reporting levels established by SARA Title III, Section 313.			
US S	tate Regulations					
Penn	sylvania Right To Kı	now				
	Graphite Talc Polytetrafluoroet Dolomite Calcium oxide Quartz	eum), hydrotreated he hylene I dithiocarbamate	avy naphthenic	64742-52-5 7782-42-5 14807-96-6 9002-84-0 16389-88-1 1305-78-8 14808-60-7 15890-25-2		
WAR	ornia Prop. 65 NING: This product ca tate of California to ca	an expose you to chem use cancer. For more	nicals including Quar information go to wy	tz, which is/are known to vw.P65Warnings.ca.gov.		
Calif	ornia List of Hazardo	ous Substances				
	Distillates (petrol Graphite Talc Calcium oxide	eum), hydrotreated he	avy naphthenic	64742-52-5 7782-42-5 14807-96-6 1305-78-8		
Califo	ornia Permissible Ex	posure Limits for Ch	emical Contaminar	nts		
	Distillates (petrol Graphite Talc Calcium oxide Quartz	eum), hydrotreated he	avy naphthenic	64742-52-5 7782-42-5 14807-96-6 1305-78-8 14808-60-7		
Califo	ornia Regulated Card Quartz	cinogens		14808-60-7		
		oduct are reported in	the following inve			
DSL		•	-	on the Canadian DSL		
TSC/ AICS		TSCA Inventor exemption.		duct are either listed on the ce with a TSCA Inventory		
AIUU						

SECTION 16. OTHER INFORMATION

Further information





:	Time-weighted average concentration for up to a 10-hour
	workday during a 40-hour workweek
:	STEL - 15-minute TWA exposure that should not be exceeded
	at any time during a workday
:	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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