BESTOLIFE.

72733

Version 19.0	Revision Date: 10/30/2020		Number: 57-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015			
SECTIO	N 1. IDENTIFICATION						
Pro	duct name	: 7	2733				
SD	SDS-Identcode		63G				
Ma	nufacturer or supplier's	details	5				
Company name of supplier Address		: 2	estolife Corpora 126 Vanco Drive ving TX 75061,				
Tele	Telephone		855-243-9164/972-865-8961				
Tele	efax	: 2	14-631-3047				
Em	Emergency telephone		CHEMTREC U.S.: 800-424-9300, International 703-527-3887 (24-hours/7 days)				
E-m	nail address	: w	/ww.bestolife.cor	n			
Red	commended use of the o	chemic	al and restriction	ons on use			
Red	commended use	T C	Offshore industrie	d (Pipe Dope) and Jacking grease for use in s ffshore industries)			
Res	strictions on use	: D		gen lines or in oxygen enriched atmos-			

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization	:	Category 1
Carcinogenicity	:	Category 2
Reproductive toxicity	:	Category 1A
Effects on or via lactation		
Specific target organ toxicity - repeated exposure	:	Category 1 (Kidney, Central nervous system, Blood)
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. H360FD May damage fertility. May damage the unborn child. H362 May cause harm to breast-fed children.



72733

Version 19.0	Revision Date: 10/30/2020	SDS Number: 115257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
			damage to organs (Kidney, Central nervous) through prolonged or repeated exposure.
Preca	autionary Statements	P202 Do not h and understoo P260 Do not b P263 Avoid co P264 Wash sk P270 Do not e P272 Contami the workplace.	reathe dust, fume, gas, mist, vapors or spray. ntact during pregnancy and while nursing. in thoroughly after handling. at, drink or smoke when using this product. nated work clothing must not be allowed out of otective gloves, protective clothing, eye protection
		P308 + P313 P333 + P313 tion.	F ON SKIN: Wash with plenty of soap and water. F exposed or concerned: Get medical attention. f skin irritation or rash occurs: Get medical atten- ntaminated clothing before reuse.
		Storage: P405 Store loc	.ked up.
		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

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	>= 30 - < 50
Lead	7439-92-1	>= 30 - < 50
Graphite	7782-42-5	>= 10 - < 20
Copper metal powder	7440-50-8	>= 1 - < 5
Talc	14807-96-6	>= 1 - < 5
Quartz	14808-60-7	>= 1 - < 5
12-Hydroxy lithium stearate	7620-77-1	>= 1 - < 5
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	>= 1 - < 5
Barium bis(dinonyInaphthalenesulphonate)	25619-56-1	>= 1 - < 5

Actual concentration is withheld as a trade secret

72733



Version 19.0	Revision Date: 10/30/2020	SDS Number: 115257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
SECTION	4. FIRST AID MEASU	RES	
Gene	eral advice	advice imme	f accident or if you feel unwell, seek medical diately. oms persist or in all cases of doubt seek medical
lf inh	aled	: If inhaled, rei Get medical	move to fresh air. attention.
In ca	se of skin contact	Remove con Get medical Wash clothin	ntact, immediately flush skin with plenty of water. taminated clothing and shoes. attention. g before reuse. clean shoes before reuse.
In ca	se of eye contact	: Flush eyes w	vith water as a precaution. attention if irritation develops and persists.
If swa	allowed	: If swallowed, Get medical	DO NOT induce vomiting.
	important symptoms effects, both acute and /ed	: May cause a Suspected o May damage May cause h	n allergic skin reaction. f causing cancer. f fertility. May damage the unborn child. arm to breast-fed children. age to organs through prolonged or repeated
	ection of first-aiders	: First Aid resp and use the when the pol	oonders should pay attention to self-protection, recommended personal protective equipment ential for exposure exists (see section 8). matically and supportively.
Note	s to physician	when the pot	

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 Lead compounds Metal oxides 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



72733

Version 19.0	Revision Date: 10/30/2020		OS Number: 5257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015	
tive eq	nal precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent 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.		
	ds and materials for nment and cleaning up	:	container for dispo Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	um up spillage and collect in suitable osal. egulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional 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 Avoid contact during pregnancy and while nursing. Do not get on skin or clothing. Do not breathe dust, fume, gas, mist, vapors or spray. Do not swallow. Avoid contact with 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 Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents Organic peroxides Explosives Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters



ersion 9.0		DS Number: 15257-00025		t issue: 05/06/2020 t issue: 05/12/2015	
	ates (petroleum), treated 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
Lead		7439-92-1	TWÀ	0.05 mg/m³ (Lead)	ACGIH
			PEL	0.05 mg/m³ (Lead)	OSHA CARC
			TWA	0.05 mg/m³ (Lead)	NIOSH REL
Graph	hite	7782-42-5	TWA (Res- pirable)	2.5 mg/m ³	NIOSH REL
			TWA (Res- pirable par- ticulate mat- ter)	2 mg/m³	ACGIH
			TWA (Dust)	15 Million particles per cubic foot	OSHA Z-3
Coppe	er metal powder	7440-50-8	TWA (Dust and mist)	1 mg/m ³ (Copper)	ACGIH
			TWA (Fumes)	0.2 mg/m ³ (Copper)	ACGIH
			TWA (Dust)	1 mg/m³ (Copper)	NIOSH REL
			TWA (Mist)	1 mg/m ³ (Copper)	NIOSH REL
			TWA (dusts and mists)	1 mg/m ³ (Copper)	OSHA Z-1
			TWA (Fumes)	0.1 mg/m ³ (Copper)	OSHA Z-1
Talc		14807-96-6	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
			TWA (Res- pirable)	2 mg/m ³	NIOSH REL
			TWA (Res- pirable par- ticulate mat- ter)	2 mg/m ³	ACGIH
Quart	Z	14808-60-7	TWA (Res- pirable dust)	0.05 mg/m³	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- ter)	0.025 mg/m³ (Silica)	ACGIH
11			TWA (Res-	0.05 mg/m³	NIOSH REL



72733

/ersion 9.0	Revision Date: 10/30/2020	SDS Number: 115257-00025	Date of las Date of firs		
			pirable dust) PEL (respir- able)	(Silica) 0.05 mg/m³	OSHA CARC
12-Hy	ydroxy lithium stearate	7620-77-1	TWÁ (Inhal- able particu- late matter)	10 mg/m³	ACGIH
			TWA (Res- pirable par- ticulate mat- ter)	3 mg/m³	ACGIH
	ates (petroleum), otreated light naphthenic	64742-53-6	TWA (Mist)	5 mg/m³	OSHA Z-1
			TWA (Inhal- able particu- late matter)	5 mg/m³	ACGIH
			TWA (Mist)	5 mg/m³	NIOSH REL
			ST (Mist)	10 mg/m ³	NIOSH REL

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

II

Quartz

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis	
Lead	7439-92-1	Lead (Lead)	In blood	Not criti- cal	200 µg/l	ACGIH BEI	
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 Particulates Not Otherwise Regulated of 15 mg/m3 - total dust, 5 mg/m3 - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m3 - respirable particles, 10 mg/m3 - inhalable particles.					
Personal protective equ	ipment						
Respiratory protection	mai con unk Foll use by a haz sup rele circ	ntain vapor ex centrations ar nown, approp ow OSHA res NIOSH/MSH, air purifying re ardous chemi plied respirato ase, exposure	cposures belo e above reco riate respirat pirator regula A approved r spirators aga cal is limited. or if there is a e levels are u ere air purifyi	ow recomm ory protect ations (29 (respirators, ainst expos Use a pos uny potentia nknown, o	ion should be CFR 1910.134 Protection pro ure to any itive pressure al for uncontrol	Where worn.) and ovided air lled	
Hand protection							



72733

Version 19.0	Revision Date: 10/30/2020		DS Number: 5257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015		
Ма	aterial	:	Chemical-resistar	nt 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 p	protection	: Wear the following personal protective equipment: Safety glasses				
Skin a	Skin and body protection		 Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc). 			
Hygie	ene measures	:	If exposure to che eye flushing syste working place. When using do no Contaminated wo workplace. Wash contaminat	emical is likely during typical use, provide ems and safety showers close to the ot eat, drink or smoke. rk clothing should not be allowed out of the ed clothing before re-use. 0.1025 for additional requirements relating		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Viscous semi-solid
Color	:	black, copper
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	:	>= 325.0 °F / >= 162.8 °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



72733

Versior 19.0	n Revision Date: 10/30/2020		S Number: 5257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
	wer explosion limit / Lower mmability limit	:	No data available)
Va	apor pressure	:	Not applicable	
Re	elative vapor density	:	Not applicable	
Re	elative density	:	1.9	
So	blubility(ies) Water solubility	:	negligible	
	artition coefficient: n-	:	Not applicable	
	tanol/water Itoignition temperature	:	No data available	3
De	ecomposition temperature	:	No data available	3
Vi	scosity Viscosity, kinematic	:	Not applicable	
Fle	ow time	:	No data available	9
Ex	plosive properties	:	Not explosive	
O	kidizing properties	:	The substance of	r mixture is not classified as oxidizing.
M	olecular weight	:	No data available	9
Pa	article size	:	No data available	9

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.



rsion .0	Revision Date: 10/30/2020	SDS N 115257	umber: '-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015	
Produ	u <u>ct:</u>				
Acute	oral toxicity			estimate: > 5,000 mg/kg llation method	
Acute inhalation toxicity		Exp Tes	Acute toxicity estimate: 148.47 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method		
Com	oonents:				
Distil	lates (petroleum), hy	drotreated	d heavy na	phthenic:	
Acute	oral toxicity	Met	thod: OECI	5,000 mg/kg D Test Guideline 401 ed on data from similar materials	
Acute	inhalation toxicity	Exp Tes Met Ass tion	thod: OECI essment: 1 toxicity		
Acute	dermal toxicity	Met	thod: OECI	: > 5,000 mg/kg D Test Guideline 402 ed on data from similar materials	
Lead	:				
Acute	oral toxicity			2,000 mg/kg ed on data from similar materials	
Acute	dermal toxicity			2,000 mg/kg ed on data from similar materials	
Grap	hite:				
Acute	oral toxicity	Met	thod: OECI essment: T	2,000 mg/kg D Test Guideline 423 Fhe substance or mixture has no acute oral tox-	
Acute	inhalation toxicity	Exp Tes			
Сорр	er metal powder:				
	oral toxicity	Met	thod: OECI essment: 1	2,500 mg/kg D Test Guideline 423 Fhe substance or mixture has no acute oral tox-	



C	Revision Date: 10/30/2020	SDS Numl 115257-00	
Acute	inhalation toxicity	Exposi Test at Methor	Rat): > 5.11 mg/l ure time: 4 h mosphere: dust/mist d: OECD Test Guideline 436 sment: The substance or mixture has no acute inhala- cicity
Acute	dermal toxicity	Metho	Rat): > 2,000 mg/kg d: OECD Test Guideline 402 sment: The substance or mixture has no acute derma
Talc:			
Acute	oral toxicity		Rat): > 5,000 mg/kg ks: Based on data from similar materials
Quart	z:		
Acute	oral toxicity	: LD50 (Rat): > 5,000 mg/kg
-	droxy lithium steara	ite:	
Acute	oral toxicity		Rat): > 2,000 mg/kg sment: The substance or mixture has no acute oral to
Distil	lates (petroleum), hy	drotreated lig	ght naphthenic:
	lates (petroleum), hy oral toxicity	: LD50 (ght naphthenic: Rat): > 5,000 mg/kg d: OECD Test Guideline 401
Acute		: LD50 (Method : LC50 (Expose Test at Method	Rat): > 5,000 mg/kg d: OECD Test Guideline 401 Rat): > 5.53 mg/l ure time: 4 h mosphere: dust/mist d: OECD Test Guideline 403 sment: The substance or mixture has no acute inhala
Acute Acute	oral toxicity	 LD50 (Method LC50 (Expose Test at Method Assess tion to> LD50 (Rat): > 5,000 mg/kg d: OECD Test Guideline 401 Rat): > 5.53 mg/l ure time: 4 h mosphere: dust/mist d: OECD Test Guideline 403 sment: The substance or mixture has no acute inhala kicity Rabbit): > 2,000 mg/kg sment: The substance or mixture has no acute derma
Acute Acute Acute Bariu	oral toxicity inhalation toxicity dermal toxicity m bis(dinonyInaphtI	: LD50 (Method : LC50 (Expose Test at Method Assess tion to : LD50 (Assess toxicity	Rat): > 5,000 mg/kg d: OECD Test Guideline 401 Rat): > 5.53 mg/l ure time: 4 h mosphere: dust/mist d: OECD Test Guideline 403 sment: The substance or mixture has no acute inhala scicity Rabbit): > 2,000 mg/kg sment: The substance or mixture has no acute derma
Acute Acute Acute Bariu	oral toxicity inhalation toxicity dermal toxicity	: LD50 (Method : LC50 (Expose Test at Method Assess tion to : LD50 (Assess toxicity nalenesulpho : LD50 (Rat): > 5,000 mg/kg d: OECD Test Guideline 401 Rat): > 5.53 mg/l ure time: 4 h mosphere: dust/mist d: OECD Test Guideline 403 sment: The substance or mixture has no acute inhala- kicity Rabbit): > 2,000 mg/kg sment: The substance or mixture has no acute derma
Acute Acute Acute Bariu Acute	oral toxicity inhalation toxicity dermal toxicity m bis(dinonyInaphtI	 LD50 (Method LC50 (Expose Test at Method Assess tion tox LD50 (Assess toxicity 	Rat): > 5,000 mg/kg d: OECD Test Guideline 401 Rat): > 5.53 mg/l ure time: 4 h mosphere: dust/mist d: OECD Test Guideline 403 sment: The substance or mixture has no acute inhala kicity Rabbit): > 2,000 mg/kg sment: The substance or mixture has no acute derma nate): Rat): > 300 - 2,000 mg/kg

72733



ersion).0	Revision Date: 10/30/2020	SDS Number: 115257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
		Remarks: Ba	sed on data from similar materials
II			
Skin	corrosion/irritation		
Not cl	assified based on av	ailable information.	
Comp	oonents:		
Distil	lates (petroleum), h	ydrotreated heavy r	aphthenic:
Speci	es	: Rabbit	
Resul		: No skin irritat	tion
Rema	arks	: Based on da	ta from similar materials
Lead:			
Speci		: Rabbit	
Metho			Guideline 404
Resul	t	: No skin irritat	
Rema	arks	: Based on da	ta from similar materials
Grap	hite:		
Speci		: Rabbit	
Metho			Guideline 404
Resul		: No skin irritat	lion
Сорр	er metal powder:		
Speci		: Rabbit	
Metho		: OECD Test (Guideline 404
Resul	t	: No skin irritat	lion
Talc:			
Speci	es	: Rabbit	
Resul		: No skin irritat	lion
ILau		-4	
	/droxy lithium stear		
Speci Resul		: Rabbit : No skin irritat	ion
Rema			ta from similar materials
	Intern (martine Internet) (and and an and a state of the state	
1 .	lates (petroleum), h		pntnenic:
Speci		: Rabbit : No skin irritat	ion
Resul	IL	: INO SKIN ITTITA	1011
Bariu	m bis(dinonyInapht	halenesulphonate):	
Speci		: Rabbit	
Resul		: Skin irritation	
Rema	arks	: Based on da	ta from similar materials

Serious eye damage/eye irritation

Not classified based on available information.



rsion .0	Revision Date: 10/30/2020	SDS Number: 115257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
Comr	oonents:		
		ydrotreated heavy na	aphthenic:
Speci	es	: Rabbit	
Resul		: No eye irritatio	
Rema	Irks	Based on data	a from similar materials
Lead:			
Speci		: Rabbit	
Resul		: No eye irritatio	on
Metho		: OECD Test G	
Rema	irks	: Based on data	a from similar materials
Grapi	nite:		
Speci		: Rabbit	
Resul		: No eye irritatio	
Metho	od	: OECD Test G	uideline 405
Сорр	er metal powder:		
Speci		: Rabbit	
Resul		: No eye irritatio	on
Metho	bd	: OECD Test G	
Talc:			
Speci	es	: Rabbit	
Resul		: No eye irritatio	on
12-Hv	droxy lithium stear	ate:	
Speci	-	: Rabbit	
Resul		: No eye irritatio	n
Rema			a from similar materials
Distil	lates (petroleum), h	ydrotreated light nap	hthenic:
Speci		: Rabbit	
Resul		: No eye irritatio	on
Bariu	m bis(dinonylnapht	halonosulnhonato):	
U.		: Rabbit	
Speci Resul		: No eye irritatio	n
Rema			a from similar materials
Bear	iratom, or akin acres	tization	
	iratory or skin sensi sensitization	uzation	
-	sensitization	reaction.	
-	iratory sensitization		
-	assified based on ava		



Version 19.0	Revision Date: 10/30/2020	SDS Number: 115257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
Com	oonents:		
Distil	lates (petroleum), h	vdrotreated heavy	naphthenic:
Test	Type es of exposure es t	: Buehler Tes : Skin contact : Guinea pig : negative	t
Lead	:		
Test	Гуре es of exposure es od t	: negative	
Grapi Test T Route Speci Resul	Гуре es of exposure es	: Local lymph : Skin contact : Mouse : negative	node assay (LLNA)
Test	es of exposure es od	Maximization Skin contact Guinea pig OECD Test negative	
Talc: Route Speci Resul		: Skin contact : Humans : negative	
Test	es of exposure es od	: Local lymph : Skin contact : Mouse	node assay (LLNA) Guideline 429
Distil	lates (petroleum), h	ydrotreated light na	aphthenic:
Test	Гуре es of exposure es od	: Buehler Tes : Skin contact : Guinea pig	t

ersion .0	Revision Date: 10/30/2020	SDS Number: 115257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
Bariu	m bis/dinonylnanht	halenesulphonate):	
Test T	ype s of exposure es t	: Buehler Test : Skin contact : Guinea pig : positive	from similar materials
Asses	sment	: Probability or e	evidence of skin sensitization in humans
Not cl	cell mutagenicity assified based on av	ailable information.	
	<u>oonents:</u>	ydrotreated heavy na	nhthania
	toxicity in vitro	: Test Type: Ba	cterial reverse mutation assay (AMES) D Test Guideline 471
Genot	toxicity in vivo	cytogenetic as Species: Mous Application Ro Method: OECI Result: negativ	se oute: Intraperitoneal injection D Test Guideline 474
Lead:			
Genot	toxicity in vitro	malian cells Result: negativ	vitro sister chromatid exchange assay in mam- ve ed on data from similar materials
Genot	toxicity in vivo	cytogenetic as Species: Rat Application Ro Result: positiv	ute: Ingestion
Graph	nite:		
-	toxicity in vitro		cterial reverse mutation assay (AMES) D Test Guideline 471 /e
			vitro mammalian cell gene mutation test D Test Guideline 476 ve
			romosome aberration test in vitro D Test Guideline 473 ve



rsion .0	Revision Date: 10/30/2020	SDS Number: 115257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
Сорр	er metal powder:		
	toxicity in vitro		cterial reverse mutation assay (AMES)) Test Guideline 471 /e
Geno	toxicity in vivo	cytogenetic as Species: Mous Application Ro Method: Direct Result: negativ	e ute: Ingestion ive 67/548/EEC, Annex V, B.12.
Talc:			
Geno	toxicity in vitro		A damage and repair, unscheduled DNA syn- nalian cells (in vitro) re
Geno	toxicity in vivo	: Test Type: Chi Species: Rat Application Ro Result: negativ	
Distil	lates (petroleum), h	ydrotreated light nap	hthenic:
Geno	toxicity in vitro		cterial reverse mutation assay (AMES)) Test Guideline 476 /e
Geno	toxicity in vivo	cytogenetic as Species: Mous Application Ro	e ute: Intraperitoneal injection) Test Guideline 474
 	m bio/dia on door bé	heleneeulekenete).	
	m bis(dinonylnapht toxicity in vitro	: Test Type: Bac Method: OECE Result: negativ	cterial reverse mutation assay (AMES)) Test Guideline 471 re ed on data from similar materials
		Method: OECE Result: negativ	romosome aberration test in vitro) Test Guideline 473 re ed on data from similar materials
		Method: OECE Result: negativ	ritro mammalian cell gene mutation test) Test Guideline 476 re ed on data from similar materials



Version 19.0	Revision Date: 10/30/2020	SDS Number:Date of last issue: 05/06/2020115257-00025Date of first issue: 05/12/2015	
	inogenicity ected of causing canc	r.	
Prod	uct:		
Carci ment	nogenicity - Assess-	 Petroleum distillates have been classified as not carc based on DMSO extract content < 3% (Regulation (E 1272/2008, Annex VI, Part 3, Note L). 	
Com	ponents:		
Disti	llates (petroleum), hy	Irotreated heavy naphthenic:	
Spec		: Mouse	
	cation Route	: Skin contact	
	sure time	: 78 weeks	
Metho Resu		: OECD Test Guideline 451	
Resu	п	: negative	
Lead			
Spec		· Dot	
Appli	cation Route	: Rat : Ingestion	
	sure time	: 2 Years	
Resu	lt	: positive	
Rema	arks	: Based on data from similar materials	
Carci ment	nogenicity - Assess-	: Limited evidence of carcinogenicity in animal studies	
Talc:			
Spec	ies	: Mouse	
Appli	cation Route	: inhalation (dust/mist/fume)	
	sure time	: 2 Years	
Resu	lt	: negative	
Quar	tz:		
Spec		: Humans	
	cation Route	: inhalation (dust/mist/fume)	
Resu		: positive	
Rema	arks	: These substance(s) are inextricably bound in the pro therefore do not contribute to a dust inhalation hazard	
Carci ment	nogenicity - Assess-	: Positive evidence from human epidemiological studie tion)	es (inhala-
Dietil	llates (netroleum) bu	Irotreated light naphthenic:	
Spec		: Mouse	
	cation Route	: Skin contact	
Expo	sure time	: 78 weeks	
Resu	lt	: negative	
IARC	Group 1: C	rcinogenic to humans	
	Quartz	14808-60-7	
	(Silica dust		



ersion 9.0	Revision Date: 10/30/2020		DS Number: 5257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
	Group 2B: Po Lead	ossik	bly carcinogenic to	o humans 7439-92-1
OSHA	Lead (Lead and inc	orga	y regulated carcir nic lead compour	7439-92-1 ids)
	Quartz Quartz (crystalline si		y regulated carcir	14808-60-7
NTP	Lead		ipated to be a hu nan carcinogen	man carcinogen 7439-92-1
	Quartz		e (Respirable Size	14808-60-7 e))
May d	oductive toxicity amage fertility. May da ause harm to breast-fee			J.
Comp	onents:			
Lead:				
Effects	s on fertility	:	Species: Mouse Application Rou Result: positive	
Effects	s on fetal development	:	Species: Rat Application Rou Result: positive	ryo-fetal development te: Ingestion d on data from similar materials
Repro sessm	ductive toxicity - As- nent	:	fertility from hun evidence of adv	e of adverse effects on sexual function and nan epidemiological studies., Positive erse effects on development from human studies., Studies indicating a hazard to babies ion period
Graph	nite:			
Effects	s on fertility	:	reproduction/de Species: Rat Application Rou	Test Guideline 422
Effects	s on fetal development	:		bined repeated dose toxicity study with the velopmental toxicity screening test te: Ingestion



rsion .0	Revision Date: 10/30/2020	SDS Number: 115257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
		Method: OEC Result: negati	D Test Guideline 422 ve
Сорр	er metal powder:		
Effect	s on fertility	Species: Rat Application Ro Result: negati	vo-generation reproduction toxicity study oute: Ingestion ve .ed on data from similar materials
Effect	s on fetal development	Species: Rabb	oute: Ingestion
Talc:			
Effect	s on fetal development	Species: Rat	nbryo-fetal development oute: Ingestion ve
Distil	lates (petroleum), hydr	otreated light nap	hthenic:
	s on fertility	: Test Type: Re test Species: Rat	production/Developmental toxicity screening oute: Ingestion
Effect	s on fetal development	Species: Rat	nbryo-fetal development oute: Skin contact ve
Bariu	m bis(dinonylnaphthal	enesulphonate):	
	s on fertility	: Test Type: Co reproduction/c Species: Rat Application Ro Method: OEC Result: negati	mbined repeated dose toxicity study with the levelopmental toxicity screening test pute: Ingestion D Test Guideline 422 ve led on data from similar materials
Effect	s on fetal development	reproduction/c Species: Rat Application Ro Method: OEC Result: negati	mbined repeated dose toxicity study with the levelopmental toxicity screening test pute: Ingestion D Test Guideline 422 ve led on data from similar materials



ersion 9.0	Revision Date: 10/30/2020	SDS Number: 115257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
	-single exposure		
	lassified based on ava		
Cause	F-repeated exposure es damage to organs posure.		ous system, Blood) through prolonged or repeat
Comp	oonents:		
Lead:	:		
Targe	et Organs ssment		al nervous system, Blood ge to organs through prolonged or repeated
Quart	t7·		
Route	es of exposure	: inhalation (dus	t/mist/fume)
	et Organs ssment		uce significant health effects in animals at con- 0.02 mg/l/6h/d or less.
		-4	
- UL -	/droxy lithium steara	: Ingestion	
	ssment	: No significant l	health effects observed in animals at concentra g/kg bw or less.
Repe	ated dose toxicity		
Comp	oonents:		
Distil	lates (petroleum), h	ydrotreated heavy na	phthenic:
Speci		: Rat	
NOAE Applic	=L cation Route	: > 0.98 mg/l : inhalation (dus	t/mist/fume)
	sure time	: 28 Days	
Rema		: Based on data	from similar materials
Lead:	:		
Speci		: Rat	
NOAE	EL	: 0.0015 mg/kg	
LOAE		: 0.005 mg/kg	
	cation Route	: Ingestion : 6 - 12 Months	
Rema	sure time arks		from similar materials
U	er metal powder:		
Speci	es	: Rat	

Species	: Rat
NOAEL	: >= 2 mg/m ³
Application Route	: inhalation (dust/mist/fume)
Exposure time	: 28 Days



72733

ersion 9.0	Revision Date: 10/30/2020	SDS Number: 115257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
Quar Speci LOAE Applie Rema	ies EL cation Route		st/mist/fume) nce(s) are inextricably bound in the product and ot contribute to a dust inhalation hazard.
12-H	ydroxy lithium stear	ate:	
Spec		: Rat	
NOAI		: > 88 mg/kg	
	cation Route sure time	: Ingestion : 90 Days	
		2	
Disti	llates (petroleum), h	ydrotreated light nap	hthenic:
Spec		: Rabbit	
NOAI		: 1,000 mg/kg	
	cation Route	: Skin contact	
Expo	sure time	: 4 Weeks : OECD Test G	
Meth			

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

oomponenta.					
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			



ersion 9.0	Revision Date: 10/30/2020		9S Number: 5257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
μ,				
Lead: Toxici	ty to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.107 mg/l s h
	ty to daphnia and other ic invertebrates	:	EC50 (Ceriodaph Exposure time: 48	nia dubia (water flea)): 0.029 mg/l B h
Toxici plants	ty to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): 0.025 ? h
			EC10 (Pseudokiro μg/l Exposure time: 72	chneriella subcapitata (green algae)): 6.1 ? h
Toxici icity)	ty to fish (Chronic tox-	:	EC10 (Pimephale Exposure time: 30	s promelas (fathead minnow)): 20 μg/l) d
	ic invertebrates (Chron-	:	EC10 (Ceriodaph Exposure time: 7	nia dubia (water flea)): 1.7 μg/l d
Graph	nite:			
Toxici	ty to fish	:	Exposure time: 96	Vater Accommodated Fraction
	ty to daphnia and other ic invertebrates	:	Exposure time: 48	Vater Accommodated Fraction
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 72	Vater Accommodated Fraction
			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	



Version 19.0	Revision Date: 10/30/2020		0S Number: 5257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
icity)	ty to fish (Chronic tox-	:	NOEC: > 1 - 10 μ	g/I
Talc: Toxicit	ty to fish	:	LC50 (Brachydan Exposure time: 24	io rerio (zebrafish)): > 100,000 mg/l I h
Quart	Z:			
Ecoto	xicology Assessment			
Acute	aquatic toxicity	:	No toxicity at the	imit of solubility.
Chron	ic aquatic toxicity	:	No toxicity at the	imit of solubility.
П 12-Ну	droxy lithium stearate			
	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	
Toxicit plants	ty to algae/aquatic	:	NOELR (Pseudok 100 mg/l Exposure time: 72 Method: OECD Te	
Distill	ates (petroleum), hydr	otro	eated light naphth	enic:
	ty to fish	:	LL50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l
	ty to daphnia and other c invertebrates	:	Exposure time: 48	agna (Water flea)): > 10,000 mg/l } h Vater Accommodated Fraction
Toxicit plants	ty to algae/aquatic	:	100 mg/l Exposure time: 72	irchneriella subcapitata (green algae)): >= 2 h Vater Accommodated Fraction
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 2 ²	nagna (Water flea)): 10 mg/l I d
	ty to microorganisms	:	NOEC (Photobac Exposure time: 4	terium phosphoreum): > 2.17 mg/l d
 _{Bariu}	n bis(dinonylnaphthal	ond	sulnhonata).	
	ty to fish	:	LL50 (Cyprinus ca Exposure time: 98	arpio (Carp)): > 100 mg/l 3 h Vater Accommodated Fraction



0	Revision Date: 10/30/2020		S Number: 5257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
				D Test Guideline 203 ed on data from similar materials
	ty to daphnia and other c invertebrates	:	Exposure time Test substance Method: OECE	a magna (Water flea)): > 100 mg/l : 48 h e: Water Accommodated Fraction D Test Guideline 202 ed on data from similar materials
Toxicit plants	ty to algae/aquatic	:	mg/l Exposure time Test substance Method: OECE Remarks: Base	kirchneriella subcapitata (green algae)): > 1 : 72 h e: Water Accommodated Fraction D Test Guideline 201 ed on data from similar materials he limit of solubility.
			mg/l Exposure time Test substance Method: OEC	kirchneriella subcapitata (green algae)): > 1 : 72 h e: Water Accommodated Fraction D Test Guideline 201 ed on data from similar materials
Toxicit	ty to microorganisms	:		
Persis	stence and degradabi	lity		
Comp	onents:			
I				
	ates (petroleum), hyd gradability	rotro :	Result: Not rea Biodegradation Exposure time	adily biodegradable. n: 2 - 4 %
Biode	gradability	:	Result: Not rea Biodegradation Exposure time	adily biodegradable. n: 2 - 4 % : 28 d
Biodes 12-Hy		:	Result: Not rea Biodegradation Exposure time Method: OECD Result: Readily Biodegradation Exposure time	ddily biodegradable. n: 2 - 4 % : 28 d D Test Guideline 301B y biodegradable. n: 78 %
Biodes 12-Hy Biodes	gradability droxy lithium stearate	: :	Result: Not rea Biodegradation Exposure time Method: OECD Result: Readily Biodegradation Exposure time Method: OECD	ddily biodegradable. 1: 2 - 4 % : 28 d D Test Guideline 301B y biodegradable. 1: 78 % : 28 d D Test Guideline 301C



72733

Version 19.0	Revision Date: 10/30/2020	SDS Number: 115257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015	
Biode	egradability	Method: OECE	adily biodegradable.) Test Guideline 301B ed on data from similar materials	
Bioa	ccumulative potentia	al		
Com	ponents:			
Bariu	um bis(dinonyInapht	halenesulphonate):		
	tion coefficient: n- nol/water		ulation method	
	ility in soil ata available			
	er adverse effects ata available			

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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead, Copper metal powder)
Class	:	9
Packing group	:	III
Labels	:	9
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Lead, Copper metal powder)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen-	:	956



72733

Version 19.0	Revision Date: 10/30/2020		6 Number: 257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015
ger ai Enviro	rcraft) onmentally hazardous	:	yes	
UN nu	-Code umber r shipping name	:	UN 3077 ENVIRONMENTA N.O.S. (Lead, Copper me	ALLY HAZARDOUS SUBSTANCE, SOLID,
Labels EmS (-	:	9 III 9 F-A, S-F yes	
	port in bulk according	-		OL 73/78 and the IBC Code
Dome	estic regulation			

49 CER

49 CFR		
UN/ID/NA number	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Lead, Copper metal powder)
Class	:	9
Packing group	:	III
Labels	:	CLASS 9
ERG Code	:	171
Marine pollutant	:	yes(Lead, Copper metal powder)
Remarks	:	THE ABOVE INFORMATION ONLY APPLIES TO PACKAGE
		SIZES WHERE THE HAZARDOUS SUBSTANCE MEETS THE REPORTABLE QUANTITY.

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)
Lead	7439-92-1	10	32
Zinc	7440-66-6	1000	8201
Copper metal powder	7440-50-8	5000	151602

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 skin sensitization

 Carcinogenicity
 Reproductive toxicity

 Specific target organ toxicity (single or repeated exposure)



72733

Version 19.0	Revision Date: 10/30/2020	-	DS Number: 5257-00025	Date of last issue: 09 Date of first issue: 09	
SARA	313	:	The following com	nponents are subject	to reporting levels
			established by SA	RA Title III, Section 3	313:
			Lead	7439-92-1	>= 30 - < 50 %
			Zinc	7440-66-6	>= 10 - < 20 %
			Copper metal powder	7440-50-8	>= 1 - < 5 %
			Barium bis(dinonylnapht halenesulpho- nate)	25619-56-1	>= 1 - < 5 %
US Sta	ate Regulations				
	ylvania Right To Kno				
	Distillates (netrole)	im)	hydrotreated heavy	/ nanhthenic	64742-52-5

Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5
Lead	7439-92-1
Graphite	7782-42-5
Zinc	7440-66-6
Copper metal powder	7440-50-8
Talc	14807-96-6
Quartz	14808-60-7
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6
Barium bis(dinonyInaphthalenesulphonate)	25619-56-1
Zinc oxide	1314-13-2

California Prop. 65

II

WARNING: This product can expose you to chemicals including Lead, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

64742-52-5 7439-92-1 7782-42-5 7440-66-6 7440-50-8 14807-96-6 64742-53-6
64742-52-5
7439-92-1
7782-42-5
7440-50-8
14807-96-6
14808-60-7
64742-53-6
7439-92-1



72733

Version 19.0	Revision Date: 10/30/2020	SDS Number: 115257-00025	Date of last issue: 05/06/2020 Date of first issue: 05/12/2015		
II	Quartz		14808-60-7		
The ingredients of this product are reported in the following inventories:					
DSL		: All components	s of this product are on the Canadian DSL		
TSCA	Λ.	TSCA Inventor	bstances in this product are either listed on the y or are in compliance with a TSCA Inventory		
AICS		exemption. : All ingredients	listed or exempt.		

SECTION 16. OTHER INFORMATION



ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA CARC	:	OSHA Specifically Regulated Chemicals/Carcinogens
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA CARC / PEL	:	Permissible exposure limit (PEL)
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average



72733

Version	Revision Date:	SDS Number:	Date of last issue: 05/06/2020
19.0	10/30/2020	115257-00025	Date of first issue: 05/12/2015

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 Prevention 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 Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Revision Date	:	10/30/2020

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.

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