

Versic 7.0		Revision Date: 09/23/2015		9S Number: 7768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015
SECT	ION 1.	IDENTIFICATION			
F	Product	name	:	PB BLACK	
S	SDS-Ide	ntcode	:	513G	
Ν	Manufad	cturer or supplier's o	deta	ils	
C	Compan	y name of supplier	:	Bestolife Corpora	tion
A	Address		:	2777 N. Stemmor Dallas TX 75207,	ns Frwy Ste 1800
Т	Felephor	ne	:	855-243-9164/972	2-865-8961
Т	Felefax		:	214-631-3047	
E	Emerger	ncy telephone	:	CHEMTREC U.S. (24-hours/7 days)	: 800-424-9300, International 703-527-3887
E	E-mail a	ddress	:	www.bestolife.cor	n
R	Recomn	nended use of the c	hem	nical and restriction	ons on use
R	Recomm	nended use	:	Offshore industrie	d (Pipe Dope) and Jacking grease for use in s ffshore industries)
R	Restrictio	ons on use	:	Do not use on oxy atmospheres.	/gen lines or in oxygen enriched

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Carcinogenicity	: Category 2
Reproductive toxicity	: Category 1A
Specific target organ systemic toxicity - repeated exposure	: Category 1 (Kidney, Central nervous system, Blood)
GHS Label element Hazard pictograms	

Signal Word

: Danger



Version 7.0	Revision Date: 09/23/2015	SDS Number: 117768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015
Haza	rd Statements	H360 May dan H372 Causes	ed of causing cancer. nage fertility or the unborn child. damage to organs (Kidney, Central nervous) through prolonged or repeated exposure.
Preca	autionary Statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P280 Wear pro face protection Response: P308 + P313 I attention. Storage: P405 Store loc Disposal:	reathe dust/ fume/ gas/ mist/ vapors/ spray. in thoroughly after handling. at, drink or smoke when using this product. otective gloves/ protective clothing/ eye protection/ n. F exposed or concerned: Get medical advice/

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Lead	7439-92-1	>= 30 - < 50
Distillates (petroleum), hydrotreated heavy naph-	64742-52-5	>= 20 - < 30
thenic		
Talc	14807-96-6	>= 10 - < 20
Graphite	7782-42-5	>= 5 - < 10
12-Hydroxy lithium stearate	7620-77-1	>= 1 - < 5
Quartz	14808-60-7	>= 0.1 - < 1

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.
In case of skin contact	: In case of contact, immediately flush skin with soap and plenty



Version 7.0	Revision Date: 09/23/2015	SDS Number: 117768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015
		Get medical Wash clothir	ntaminated clothing and shoes. attention. ng before reuse. clean shoes before reuse.
In cas	e of eye contact		with water as a precaution. attention if irritation develops and persists.
lf swa	llowed	Get medical	, DO NOT induce vomiting. attention. h thoroughly with water.
	important symptoms ffects, both acute and ed	May damage	of causing cancer. e fertility or the unborn child. hage to organs through prolonged or repeated
Protec	ction of first-aiders	and use the	ponders should pay attention to self-protection, recommended personal protective equipment tential for exposure exists.
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	:	Lead compounds Carbon oxides Metal 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



Version 7.0	Revision Date: 09/23/2015	SDS Number: 117768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015
tive ec	nal precautions, protec- quipment and emer- procedures		protective equipment. Indling advice and personal protective equip- endations.
Enviro	onmental precautions	Prevent furthe Retain and dis	the environment must be avoided. r leakage or spillage if safe to do so. pose of contaminated wash water. es should be advised if significant spillages tained.
	ds and materials for nment and cleaning up	tainer for dispo Local or nation posal of this m employed in th mine which reg Sections 13 ar	acuum up spillage and collect in suitable con- osal. nal regulations may apply to releases and dis- naterial, as well as those materials and items ne cleanup of releases. You will need to deter- gulations are applicable. nd 15 of this SDS provide information regarding r national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.	
Advice on safe handling	 Do not get on skin or clothing. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safet practice. Keep container tightly closed. Take care to prevent spills, waste and minimize release to th 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

Ingredients	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Lead	7439-92-1	TWA	0.05 mg/m3 (Lead)	NIOSH REL



	DS Number: 17768-00008		t issue: 09/14/2015 t issue: 05/13/2015	
		TWA	0.05 mg/m3 (Lead)	ACGIH
		PEL	0.05 mg/m3 (Lead)	OSHA C
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m3	OSHA Z-
		TWA (Inhal- able fraction)	5 mg/m3	ACGIH
		TWA (Mist) ST (Mist)	5 mg/m3 10 mg/m3	NIOSH F
Talc	14807-96-6	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-
		TWA (Res- pirable)	2 mg/m3	NIOSH F
		TWA (Res- pirable frac- tion)	2 mg/m3	ACGIH
Graphite	7782-42-5	TWA (Res- pirable)	2.5 mg/m3	NIOSH F
		TWA (Res- pirable frac- tion)	2 mg/m3	ACGIH
		TWA (Dust)	15 Million particles per cubic foot	OSHA Z-
12-Hydroxy lithium stearate	7620-77-1	TWA	10 mg/m3	ACGIH
Quartz	14808-60-7	TWA (total dust)	30 mg/m3 / %SiO2+2	OSHA Z-
		TWA (respir- able)	10 mg/m3 / %SiO2+2	OSHA Z-
		TWA (respir- able)	250 mppcf / %SiO2+5	OSHA Z-
		TWA (Res- pirable frac- tion)	0.025 mg/m3 (Silica)	ACGIH
		TWA (Res- pirable dust)	0.05 mg/m3 (Silica)	NIOSH F

Biological occupational exposure limits

la are dia sta		Control	Dielegiaal	Com	Dermineihle	Deele
Ingredients	CAS-No.	Control	Biological	Sam-	Permissible	Basis
		parameters	specimen	pling	concentra-	
				time	tion	
Lead	7439-92-1	Lead	In blood	Not criti-	30 µg/ 100	ACGIH
		(Lead)		cal	ml	BEI
Engineering measures	Dus pro- tatic plac Rel erw able	duct. In additions of concentro ces have to be evant limits invise Regulated e fraction; and	ay be relevant on to substant trations of part considered clude: OSHA of 15 mg/m ACGIH TW/	nt in the pro ince-specific inticulates in in workplac NPEL for Pa 3 - total dus A for Particl	ions. DELs, genera the air at wor ce risk assessi articulates Not st, 5 mg/m3 - r les (insoluble o of 3 mg/m3 - r	al limi- rk- ment. Oth- espir- or



Version 7.0	Revision Date: 09/23/2015	SDS Number: 117768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015				
		able particles, 10 mg/m3 - inhalable particles.					
Per	sonal protective equipr	nent					
Respiratory protection		maintain va concentrati unknown, a Follow OSH use NIOSH by air purify hazardous supplied re release, ex	d local exhaust ventilation is recommended to apor exposures below recommended limits. Where ons are above recommended limits or are appropriate respiratory protection should be worn. A respirator regulations (29 CFR 1910.134) and /MSHA approved respirators. Protection provided ving respirators against exposure to any chemical is limited. Use a positive pressure air spirator if there is any potential for uncontrolled posure levels are unknown, or any other ce where air purifying respirators may not provide rotection.				
	nd protection laterial	: Impervious	gloves				
R	Remarks		ves to protect hands against chemicals depending centration specific to place of work. Breakthrough determined for the product. Change gloves often! applications, we recommend clarifying the to chemicals of the aforementioned protective the glove manufacturer. Wash hands before at the end of workday.				
Eye	protection	: Wear the fo Safety glas	llowing personal protective equipment: ses				
resistance data and an assessment of the loc potential.		opriate protective clothing based on chemical data and an assessment of the local exposure at must be avoided by using impervious protective oves, aprons, boots, etc).					
Hyg	iene measures	located close When using	e eye flushing systems and safety showers are se to the working place. g do not eat, drink or smoke. aminated clothing before re-use.				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Viscous semi-solid
Color	: black
Odor	: Petroleum
Odor Threshold	: No data available
рН	: Not applicable (not an aqueous solution)



Vers 7.0	sion	Revision Date: 09/23/2015		5 Number: 768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015
I	Melting	point/freezing point	:	No data available	
	Initial be range	oiling point and boiling	:	No data available	
I	Flash p	oint	:	No data available	
	Evapora	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	No data available	
	Upper e	explosion limit	:	No data available	
	Lower e	explosion limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	2.2	
	Density	,	:	No data available	
	Solubili Wate	ty(ies) er solubility	:	negligible	
	Partition octanol	n coefficient: n- /water	:	No data available	
	Autoign	ition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visco	ty osity, dynamic	:	No data available	
	Visco	osity, kinematic	:	No data available	
	Flow tin	ne	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

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



ersion 0	Revision Date: 09/23/2015	SDS Number: 117768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015				
tions							
Cond	itions to avoid	: None know	ın.				
Incom	npatible materials	: Oxidizing a	: Oxidizing agents				
Haza produ	rdous decomposition	: No hazardous decomposition products are known.					
ECTION	11. TOXICOLOGICAL	INFORMATION					
Skin o Inges	mation on likely route contact tion contact	s of exposure					
	e toxicity						
	lassified based on avail	able information.					
Lead:	<u>dients:</u> :						
	oral toxicity		> 2,000 mg/kg ased on data from similar materials				
Acute	e dermal toxicity		: LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials				
	lates (petroleum), hyd						
Acute	e oral toxicity	Method: OE	> 5,000 mg/kg CD Test Guideline 401 ased on data from similar materials				
Acute	inhalation toxicity	Method: OE Assessmen tion toxicity	 > 5.53 mg/l me: 4 h ohere: dust/mist CD Test Guideline 403 t: The substance or mixture has no acute inhala- wased on data from similar materials 				
Acute	e dermal toxicity	Method: OE	 LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials 				
Talc: Acute	e 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 401 Assessment: The substance or mixture has no acut icity						



Version 7.0	Revision Date: 09/23/2015	SDS Number: 117768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015
	ydroxy lithium stearate e oral toxicity	: LD50 (Rat): > 2	,000 mg/kg he substance or mixture has no acute oral tox-
Quar Acute	tz: e oral toxicity	: LD50 (Rat): > 5	,000 mg/kg
-	corrosion/irritation lassified based on avail	able information.	
Lead Spec Meth- Resu Rema Distil Spec Resu Resu Spec Resu Spec Meth- Resu Spec Meth- Resu Spec Meth- Resu	ies: Rabbit od: OECD Test Guidelir It: No skin irritation arks: Based on data fror Iates (petroleum), hyd ies: Rabbit It: No skin irritation arks: Based on data fror ies: Rabbit It: No skin irritation	n similar materials Irotreated heavy nap n similar materials ne 404 e:	ohthenic:
	ous eye damage/eye ir		
Not c	lassified based on avail	able information.	
	dients:		
Resu Meth	: ies: Rabbit lt: No eye irritation od: OECD Test Guidelir arks: Based on data fror		
Disti	lates (petroleum), hyd	rotreated heavy nap	ohthenic:



Version 7.0	Revision Date: 09/23/2015	SDS Number: 117768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015					
Resu	Species: Rabbit Result: No eye irritation Remarks: Based on data from similar materials							
	es: Rabbit t: No eye irritation							
Speci	Graphite: Species: Rabbit Result: No eye irritation							
Speci Resul	12-Hydroxy lithium stearate: Species: Rabbit Result: No eye irritation Remarks: Based on data from similar materials							
Skin s	iratory or skin sensiti sensitization: Not classi iratory sensitization: No	fied based on available						
Lead Test Route Speci Metho Resul	Ingredients: Lead: Test Type: Maximization Test Routes of exposure: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative Remarks: Based on data from similar materials							
Test Route Speci Resul	lates (petroleum), hyc Type: Buehler Test es of exposure: Skin co es: Guinea pig It: negative arks: Based on data fro	ntact	hthenic:					
Speci	Talc: Routes of exposure: Skin contact Species: Humans Result: negative							
Test Route Speci	Graphite: Test Type: Local lymph node assay (LLNA) Routes of exposure: Skin contact Species: Mouse Result: negative							
Test Route Speci Metho	Adroxy lithium stearat Type: Local lymph node s of exposure: Skin co es: Mouse od: OECD Test Guidelin It: negative	e assay (LLNA) ntact						



ersion .0	Revision Date: 09/23/2015	SDS Number: 117768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015
	cell mutagenicity		
Not cl	assified based on ava	ailable information.	
Ingre	dients:		
Lead:			
Geno	toxicity in vitro	malian cells Result: nega	n vitro sister chromatid exchange assay in mam- tive Ised on data from similar materials
Geno	toxicity in vivo	cytogenetic a Species: Rat Application R Result: positi	Route: Ingestion
Distil	lates (petroleum), h	drotreated heavy r	naphthenic:
	toxicity in vitro	: Test Type: B	acterial reverse mutation assay (AMES) CD Test Guideline 471
Geno	toxicity in vivo	cytogenetic a Species: Mor Application R Method: OEC Result: nega	use Route: Intraperitoneal injection CD Test Guideline 474
II Talc:			
	toxicity in vitro		NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) tive
Geno	toxicity in vivo	Species: Rat	Route: Ingestion
II Grapi	hite:		
	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
Carci	nogenicity		
	ected of causing canc	er.	
Produ	uct:		
Carcir ment	nogenicity - Assess-	based on DM	stillates have been classified as not carcinogenic ISO extract content < 3% (Regulation (EC) Annex VI, Part 3, Note L).
Ingre Lead:	<u>dients:</u>		



	Revision Date: 09/23/2015	SDS Number: 117768-00008	Date of last issue: 09/14/201 Date of first issue: 05/13/207	
Applic Expos Resul	es: Rat cation Route: Ingestion sure time: 2 Years It: positive arks: Based on data fro			
Carcin ment	nogenicity - Assess-	: Limited evidence	e of carcinogenicity in animal st	tudies
Speci Applic Expos Metho	lates (petroleum), hyd es: Mouse cation Route: Skin cont sure time: 78 weeks od: OECD Test Guidelin It: negative	act	ohthenic:	
Applic Expos	es: Mouse cation Route: inhalatior sure time: 2 Years lt: negative	n (dust/mist/fume)		
Applic Resul Rema The s	es: Humans cation Route: inhalatior lt: positive arks: IARC (Internationa	al Agency for Researc	h on Cancer) t and therefore does not contrib	ute to a dust
	nogenicity - Assess-	: Positive eviden		
Carcir ment	logenicity - Assess-	tion)	ce from human epidemiological	studies (inhala
				studies (inhala
ment		tion)		studies (inhala 14808-60-
ment		tion) Group 1: Carcinog Quartz		
ment		tion) Group 1: Carcinog Quartz	enic to humans	14808-60-
ment	;	tion) Group 1: Carcinog Quartz Group 2B: Possibl Lead	enic to humans	14808-60-
IARC	;	tion) Group 1: Carcinog Quartz Group 2B: Possibl Lead	enic to humans y carcinogenic to humans	14808-60- 7439-92-
IARC	;	tion) Group 1: Carcinog Quartz Group 2B: Possibl Lead OSHA specifically	enic to humans y carcinogenic to humans regulated carcinogen	
IARC OSH	;	tion) Group 1: Carcinog Quartz Group 2B: Possibl Lead OSHA specifically Lead	enic to humans y carcinogenic to humans regulated carcinogen	14808-60- 7439-92-
IARC OSH	;	tion) Group 1: Carcinog Quartz Group 2B: Possibl Lead OSHA specifically Lead Known to be huma Quartz	enic to humans y carcinogenic to humans regulated carcinogen	14808-60- 7439-92- 7439-92- 14808-60-



ersion .0	Revision Date: 09/23/2015		S Number: 7768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015
-	ductive toxicity amage fertility or the un	borr	n child.	
Ingred	lients:			
Lead: Effects	s on fertility	:	Species: Mouse Application Route Result: positive	eneration reproduction toxicity study : Ingestion on data from similar materials
Effects	on fetal development	:	Species: Rat Application Route Result: positive	ro-fetal development : Ingestion on data from similar materials
Reproo sessm	ductive toxicity - As- ent	:	fertility from huma	of adverse effects on sexual function and in epidemiological studies., Positive evi- effects on development from human epide-
Talc: Effects	s on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	ro-fetal development : Ingestion
II Graph	ite:			
Effects	s on fertility	:		
Effects	on fetal development	:		

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Causes damage to organs (Kidney, Central nervous system, Blood) through prolonged or repeated exposure.

Ingredients:

Lead:

Target Organs: Kidney, Central nervous system, Blood Assessment: Causes damage to organs through prolonged or repeated exposure.



Version 7.0	Revision Date: 09/23/2015	SDS Number: 117768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015
Route		ion	d in animals at concentrations of 100 mg/kg
Targe Asses	es of exposure: inhala et Organs: Lungs	, , , , , , , , , , , , , , , , , , ,	effects in animals at concentrations of 0.02
Repe	ated dose toxicity		
Lead: Speci NOAE LOAE Applic Expos Rema Distil Speci NOAE Applic Expos Rema Grapl Speci NOAE Applic Expos	es: Rat EL: 0.0015 mg/kg cation Route: Ingestio sure time: 6 - 12 Mont irks: Based on data fr lates (petroleum), hy es: Rat EL: > 0.98 mg/l cation Route: inhalatio sure time: 28 Days irks: Based on data fr hite: es: Rat EL: 12 mg/m3 cation Route: inhalatio sure time: 28 Days	ths om similar materials ydrotreated heavy nap on (dust/mist/fume) om similar materials on (dust/mist/fume)	ohthenic:
12-Hy Speci NOAE Applic	od: OECD Test Guide vdroxy lithium steara es: Rat EL: > 88 mg/kg cation Route: Ingestio sure time: 90 Days	ate:	
LÓAE Applic Rema	es: Humans L: 0.053 mg/m3 ation Route: inhalatic	s inextricably bound in t	he product and therefore does not contribute
-	ation toxicity assified based on ava	ailable information.	



Version 7.0	Revision Date: 09/23/2015	SDS Number: 117768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015
SECTION	12. ECOLOGICAL II	NFORMATION	
Ecot	oxicity		
	dients:		
Lead	: ity to fish		mahua mukica (rainhau traut)): 0,107 mg/l
TOXIC		Exposure time	ynchus mykiss (rainbow trout)): 0.107 mg/l : 96 h
		Remarks: Base	ed on data from similar materials

		Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 0.029 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxicity to algae	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.025 mg/l Exposure time: 72 h Remarks: Based on data from similar materials
		EC10 (Pseudokirchneriella subcapitata (green algae)): 6.1 μg/l Exposure time: 72 h Remarks: Based on data from similar materials
M-Factor (Acute aquatic tox- icity)	:	10
Toxicity to fish (Chronic tox- icity)	:	EC10 (Pimephales promelas (fathead minnow)): 20 μg/l Exposure time: 30 d Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	EC10 (Ceriodaphnia dubia (water flea)): 1.7 μg/l Exposure time: 7 d Remarks: Based on data from similar materials
M-Factor (Chronic aquatic toxicity)	:	10
Distillates (petroleum), hydro		
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

	Remarks: Based on data from similar materials
Toxicity to algae	 EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials



Version 7.0	Revision Date: 09/23/2015		9S Number: 7768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015
aquatio	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	Toxicity to bacteria		NOEC: > 1.93 mg/l Exposure time: 10 min Remarks: Based on data from similar materials	
Talc: Toxicit <u>y</u>	y to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 100,000 mg/l Exposure time: 24 h	
Graph i Toxicity	ite: y to fish	:	LC50 (Danio rerio Exposure time: 96 Method: OECD Te	
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicit	y to algae	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
Toxicity	y to bacteria	:	EC50: > 1,012.5 r Exposure time: 3 Method: OECD Te	h
	Iroxy lithium stearate y to fish		LL50 (Oncorhyncl Exposure time: 96 Method: OECD Te	
	y to daphnia and other invertebrates	:	EL50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicity	y to algae	:	NOELR (Pseudok 100 mg/l Exposure time: 72 Method: OECD Te	
	:: icology Assessment aquatic toxicity	:	No toxicity at the I	imit of solubility.
Chroni	c aquatic toxicity	:	No toxicity at the I	imit of solubility.
II Persis Ingred	tence and degradabili	ity		

Ingredients:

Distillates (petroleum), hydrotreated heavy naphthenic:

Biodegradability : Result: Not readily biodegradable.



Version 7.0	Revision Date: 09/23/2015	SDS Number: 117768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015
		Biodegradatior Exposure time Method: OECE	
12-Hy	/droxy lithium steara	te:	
Biode	gradability	: Result: Readily Biodegradatior Exposure time Method: OECE	i: 78 %
Bioad	cumulative potential	l	
	ta available		
	l ity in soil ata available		
Other	r adverse effects		
•	ata available		
SECTION	13. DISPOSAL CONS	BIDERATIONS	

Disposal methods Waste from residues : Dispose of in accordance with local regulations. Contaminated packaging : Empty containers should be taken to an approve

Contaminated packaging	: Empty containers should be taken to an approved waste han-
	dling site for recycling or disposal.
	If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG	
UN number	: UN 3077
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead)
Class	: 9
Packing group	: 111
Labels	: 9
IATA-DGR	
UN/ID No.	: UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Lead)
Class	: 9
Packing group	: III
Labels	: Miscellaneous
Packing instruction (cargo aircraft)	: 956
Packing instruction (passen-	: 956



Versi 7.0	on	Revision Date: 09/23/2015	SDS Number: 117768-00008	Date of last issue: 09/14/2015 Date of first issue: 05/13/2015
(ger airo	craft)		
I	IMDG-	Code		
	UN number		: UN 3077	
ł	Proper shipping name		: ENVIRONMENT N.O.S. (Lead)	ALLY HAZARDOUS SUBSTANCE, SOLID,
(Class		: 9	
		g group	: []]	
-	Labels EmS C		: 9 : F-A, S-F	
		pollutant	: Yes	
		•		POL 73/78 and the IBC Code
	•	plicable for product as	-	
ľ	Not ap		Supplied.	
I	Domes	stic regulation		
	49 CFF	र		
		NA number	: UN 3077	
I	Proper	shipping name	: ENVIRONMENT	ALLY HAZARDOUS SUBSTANCE, SOLID,
			N.O.S.	
(Class		(Lead) : 9	
		g group	: .	
	Labels		: CLASS 9	
I	ERG C	ode	: 171	
1	Marine	pollutant	: yes (Lead)	
I	Remar	ks	-	ORMATION ONLY APPLIES TO PACKAGE
				THE HAZARDOUS SUBSTANCE MEETS
			THE REPORTA	

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ	Calculated product RQ
-		(lbs)	(lbs)
Lead	7439-92-1	10	20

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards	: Chronic Health Hazard
SARA 302	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.



/ersion 7.0	Revision Date: 09/23/2015		Date of last issue: 09/14/2 Date of first issue: 05/13/2	
SAR	A 313	known CAS numbe	not contain any chemical or that exceed the thresho ablished by SARA Title III,	old (De Minimis)
US S	tate Regulations			
Penn	sylvania Right To Kn	ow		
	Lead		7439-92-1	30 - 50 %
	Distillates (naphthenic	petroleum), hydrotreated I	neavy 64742-52-5	20 - 30 %
	Talc		14807-96-6	10 - 20 %
	Graphite		7782-42-5	5 - 10 %
New	Jersey Right To Know	N		
	Lead		7439-92-1	30 - 50 %
	Distillates (naphthenic	petroleum), hydrotreated I	neavy 64742-52-5	20 - 30 %
	Talc		14807-96-6	10 - 20 %
	Graphite		7782-42-5	5 - 10 %
	12-Hydroxy	/stearic acid	106-14-9	1 - 5 %
	Quartz		14808-60-7	0.1 - 1 %
Calif	ornia Prop. 65 Lead	WARNING! This pr State of California	oduct contains a chemica to cause cancer. 7439-92-1	l known in the
	Quartz		14808-60-7	
			oduct contains a chemica to cause birth defects or o	
	Lead		7439-92-1	
The i	ngredients of this pro	oduct are reported in the	following inventories:	
DSL		: All components of t	his product are on the Ca	nadian DSL
TSC	A		nces in this material are ir ng on the TSCA Inventory	

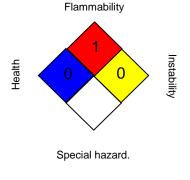


Version	Revision Date:	SDS Number:	Date of last issue: 09/14/2015
7.0	09/23/2015	117768-00008	Date of first issue: 05/13/2015

SECTION 16. OTHER INFORMATION

Further information





HMIS III:

HEALTH	0*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

Full text of other abbreviations

ACGIH ACGIH BEI NIOSH REL OSHA CARC OSHA Z-1	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) USA. NIOSH Recommended Exposure Limits OSHA Specifically Regulated Chemicals/Carcinogens 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 OSHA Z-1 / TWA OSHA Z-3 / TWA	:	Permissible exposure limit (PEL) 8-hour time weighted average 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; 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 - Ko-



Version	Revision Date:	SDS Number:	Date of last issue: 09/14/2015
7.0	09/23/2015	117768-00008	Date of first issue: 05/13/2015

rea 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

Revision Date : 09/23/2015

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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