

ounnee				
Version 2.0	Revision Date: 08/02/2022		e of last issue: 06/30/2022 e of first issue: 11/16/2021	Print Date: 07/28/2023
SECTION	1. IDENTIFICATION			
Produ	Product name		SumTech SG 220	
Articl	e-No.	:	320386	
Manu	afacturer or supplier's	s deta	ails	
Com	bany name of supplier	:	Klüber Lubrication NA LP 9010 County Road 2120 Tyler, Texas 75707 USA Phone: +1 903 534-8021 Fax: +1 903 581-4376 32 Industrial Drive Londonderry, NH 03053 USA Phone: +1 603 647-4104 Fax: +1 603 647-4106	
	il address of person	:	mcm@us.kluber.com	
	onsible for the SDS		Material Compliance Management	
Emer ber	gency telephone num-	:	+1-517-545-7070 NCEC	
Reco	mmended use of the	chen	nical and restrictions on use	
Reco	mmended use	:	Grease	
Restr	ictions on use	:	Restricted to professional users.	

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Eye irritation	: Category 2A			
Reproductive toxicity	: Category 2			
GHS label elements Hazard pictograms				
Signal word	: Warning	a brand of		





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Haza	rd statements	: Causes serious eye irritation. Suspected of damaging fertility.	
Preca	autionary statements	Prevention: Obtain special instructions before Wear protective gloves/ protectiv protection.	
		Response: IF exposed or concerned: Get me If eye irritation persists: Get medi	
		Storage: Store locked up.	
		Disposal: Dispose of contents/ container to plant.	an approved waste disposal
Othe	r hazards		

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
Chemical nature	:	Synthetic hydrocarbon oil special lithium soap

Components

Chemical name	CAS-No.	Concentration (% w/w)
lithium 12-hydroxystearate	7620-77-1	Trade secret (>= 10 - < 30)
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	Trade secret (>= 1 - < 5)
dilithium azelate	38900-29-7	Trade secret (>= 1 - < 5)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	Trade secret (>= 1 - < 5)
Hydrocarbon waxes (petroleum), oxidized, Me esters	68602-85-7	Trade secret (>= 1 - < 5)
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	Trade secret (>= 1 - < 5)

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled

: Obtain medical attention.





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		medical attention. Keep patient warm and a If unconscious, place in re advice. Keep respiratory tract cle	ecovery position and seek medical
In ca	se of skin contact		h soap and plenty of water. nediately if irritation develops and se.
In ca	se of eye contact	: Rinse immediately with pl for at least 10 minutes. Seek medical advice.	enty of water, also under the eyelids,
If swa	allowed	advice. Keep respiratory tract cle Do not induce vomiting w	ecovery position and seek medical ar.
	important symptoms effects, both acute and /ed	: No information available. None known.	
Note	s to physician	: No information available.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide.
Unsuitable extinguishing media	:	High volume water jet
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus Metal oxides
Further information	:	Standard procedure for chemical fires.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.





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		Exposure to decomposition produc health.	ts may be a hazard to				
SECTION	SECTION 6. ACCIDENTAL RELEASE MEASURES						

Personal precautions, protec- tive equipment and emer- gency procedures	:	Evacuate personnel to safe areas. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Do not breathe vapours, aerosols. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling :	 Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Wash hands and face before breaks and immediately after handling the product. Do not get in eyes or mouth or on skin. Do not get on skin or clothing. Do not ingest. Do not repack. These safety instructions also apply to empty packaging which may still contain product residues. Keep container closed when not in use.
Conditions for safe storage :	Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters





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Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
lithium 12-hydroxystearate	7620-77-1	TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH (2018-03-20)
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH (2018-03-20)
Distillates (petroleum), hy- drotreated light paraffinic	64742-55-8	TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH (2013-03-01)
		TWA (Mist)	5 mg/m3	OSHA Z-1 (2018-03-15)
		TWA (Mist)	5 mg/m3	OSHA P0 (1989-01-19)
		TWA (Mist)	5 mg/m3	NIOSH REL (2019-10-04)
		ST (Mist)	10 mg/m3	NIOSH REL (2019-10-04)

Engineering measures	:	Handle only in a place equipped with local exhaust (or other
		appropriate exhaust).

Personal protective equipment

Respiratory protection	:	Not required; except in case of aerosol formation.
Filter type	:	Filter type P
Hand protection Material Break through time Protective index		Nitrile rubber > 10 min Class 1
Remarks	:	Wear protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.
Eye protection	:	Safety glasses with side-shields
Skin and body protection	:	Choose body protection in relation to its type, to the concen- tration and amount of dangerous substances, and to the spe- cific work-place.
Protective measures	:	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures	:	Wash face, hands and any exposed skin thoroughly after handling.





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SECTION 9. PHYSICAL AND CHE	SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES				
Appearance	:	paste			
Colour	:	beige			
Odour	:	characteristic			
Odour Threshold	:	No data available			
рН	:	Not applicable substance/mixture is non-soluble (in water)			
Melting point/range	:	No data available			
Boiling point/boiling range	:	No data available			
Flash point	:	Not applicable			
Evaporation rate	:	No data available			
Flammability (solid, gas)	:	Combustible Solids			
Self-ignition	:	No data available			
Upper explosion limit / Upper flammability limit	:	No data available			
Lower explosion limit / Lower flammability limit	:	No data available			
Vapour pressure	:	< 0.001 hPa (68 °F / 20 °C)			
Relative vapour density	:	No data available			
Relative density	:	0.88 (68 °F / 20 °C) Reference substance: Water The value is calculated			
Bulk density	:	No data available			
Solubility(ies) Water solubility	:	insoluble			





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	Solubility in other solvents	3 :	No data available	
	Partition coefficient: n- octanol/water	:	No data available	
Þ	Auto-ignition temperature	:	No data available	
0	Decomposition temperature	:	No data available	
١	/iscosity			
	Viscosity, dynamic	:	No data available	
	Viscosity, kinematic	:	Not applicable	
E	Explosive properties	:	Not explosive	
(Dxidizing properties	:	No data available	
S	Sublimation point	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No hazards to be specially mentioned.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	No conditions to be specially mentioned.
Incompatible materials	:	No materials to be especially mentioned.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute	toxicity
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Product:		
Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Remarks: This information is not available.





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<u>Comp</u>	oonents:			
lithiur	m 12-hydroxystear	ate:		
	oral toxicity		LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401	
Acute	dermal toxicity	:	LD50 (Rabbit): > 3,000 mg/kg Assessment: The substance or mix toxicity	xture has no acute dermal
Distill	lates (petroleum), ł	nydrotro	eated light paraffinic:	
Acute	oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes	
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 mix tion toxicity	
Acute	dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402 GLP: yes	2
dilithi	ium azelate:			
Acute	oral toxicity	:	LD50 (Rat): > 300 mg/kg Method: OECD Test Guideline 420 GLP: yes)
Acute	dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mix toxicity	xture has no acute dermal
Benze	enamine, N-phenyl	-, reacti	on products with 2,4,4-trimethylp	entene:
Acute	oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401	
Acute	dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mix toxicity	
Hydro	ocarbon waxes (pe	troleum), oxidized, Me esters:	
-	oral toxicity		LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mix icity	xture has no acute oral tox-





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zinc k	ois[O,O-bis(2-ethyll	hexyl)] bis(dithiophosphate):	
Acute	oral toxicity	: LD50 (Rat, male): 3,100 mg/kg Method: OECD Test Guideline GLP: no	
Acute	dermal toxicity	: LD50 (Rabbit, male): > 5,000 m Method: OECD Test Guideline GLP: no	
Skin	corrosion/irritation		
<u>Produ</u>	uct:		
Rema		: This information is not available	9.
<u>Com</u>	oonents:		
lithiu	m 12-hydroxystear	ate:	
	ssment	: No skin irritation	
Metho		: OECD Test Guideline 439	
Resul	t	: No skin irritation	
Distil	lates (petroleum), ł	nydrotreated light paraffinic:	
Speci	es	: Rabbit	
	ssment	: No skin irritation	
Resul GLP	lt	: No skin irritation : yes	
dilithi	ium azelate:		
Asses	ssment	: No skin irritation	
Resul		: No skin irritation	
Benz	enamine, N-phenyl	-, reaction products with 2,4,4-trimeth	ylpentene:
Speci	es	: Rabbit	
Asses	ssment	: No skin irritation	
Metho		: OECD Test Guideline 404	
Resul	lt	: No skin irritation	
Hydro	ocarbon waxes (pe	troleum), oxidized, Me esters:	
Speci		: human skin	
	ssment	: No skin irritation	
Resul	It	: No skin irritation	
		hexyl)] bis(dithiophosphate):	
Speci		: Rabbit	
	ssment	: No skin irritation	
Metho		: OECD Test Guideline 404	
Resul GLP	IL	: No skin irritation	
GLF		: yes	
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SAFETY DATA SHEET



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Serious eye damage/eye irritation

Product:

Remarks

: Irritating to eyes.

Components:

lithium 12-hydroxystearate:

Species	:	Rabbit
Result	:	No eye irritation
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405

Distillates (petroleum), hydrotreated light paraffinic:

Species	Rabbit
Result	No eye irritation
Exposure time	48 h
Assessment	No eye irritation
Method	OECD Test Guideline 405
GLP	yes

dilithium azelate:

Species	:	Rabbit
Result	:	No eye irritation
Assessment	:	No eye irritation

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species	:	Rabbit
Result	:	No eye irritation
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405

Hydrocarbon waxes (petroleum), oxidized, Me esters:

Species	:	Human
Result	:	Irritating to eyes.
Assessment	:	Irritating to eyes.

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):

Species	:	Rabbit
Result	:	Risk of serious damage to eyes.
Assessment	:	Risk of serious damage to eyes.
Method	:	OECD Test Guideline 405
GLP	:	yes





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Resp	iratory or skin sens	sitisation	
Produ	uct:		
Rema		: This information is not available.	
<u>Comp</u>	oonents:		
lithiu	m 12-hydroxystear	ate:	
	sure routes	: Dermal	
Speci		: Mouse	
Metho		: OECD Test Guideline 429	
Resul	t	: negative	
Distil	lates (petroleum), ł	ydrotreated light paraffinic:	
Test 7		: Buehler Test	
Speci	es	: Guinea pig	
	ssment	: Did not cause sensitisation on lab	oratory animals.
Metho		: OECD Test Guideline 406	
Resul	lt	: Did not cause sensitisation on lab	oratory animals.
GLP		: no	
dilith	ium azelate:		
Asses	ssment	: Does not cause skin sensitisation.	
Resul	lt	: Does not cause skin sensitisation.	
Benz	enamine, N-phenyl	, reaction products with 2,4,4-trimethyl	pentene:
Speci	es	: Guinea pig	
•	ssment	: Did not cause sensitisation on lab	oratory animals.
Metho	bd	: OECD Test Guideline 406	·
Resul	t	: Did not cause sensitisation on lab	oratory animals.
Hydro	ocarbon waxes (pe	roleum), oxidized, Me esters:	
Test 1	Гуре	: Buehler Test	
Speci		: Guinea pig	
	ssment	: Does not cause skin sensitisation.	
Resul	t	: Does not cause skin sensitisation.	
zinc k	ois[O,O-bis(2-ethyll	nexyl)] bis(dithiophosphate):	
Test		: Maximisation Test	
Speci		: Guinea pig	
	ssment	: Did not cause sensitisation on lab	oratory animals.
Metho		: OECD Test Guideline 406	,
Resul	lt	: Did not cause sensitisation on lab	oratory animals.
GLP		: yes	-





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Germ	cell mutagenicity			
Produ	uct:			
	toxicity in vitro	: Re	emarks: No data available	
Geno	toxicity in vivo	: Re	emarks: No data available	
<u>Com</u>	oonents:			
Distil	lates (petroleum), hy	drotreate	ed light paraffinic:	
	cell mutagenicity - ssment		ests on bacterial or mammaliar utagenic effects.	n cell cultures did not show
Carci	nogenicity			
<u>Produ</u> Rema		: No	o data available	
<u>Comp</u>	oonents:			
Distil	lates (petroleum), hy	drotreate	ed light paraffinic:	
Carcii ment	nogenicity - Assess-	: No	evidence of carcinogenicity in	n animal studies.
IARC			s product present at levels grea e, possible or confirmed huma	
IARC OSH/	A No compor		s product present at levels gre ulated carcinogens.	ater than or equal to 0.1% is
NTP			s product present at levels greater or anticipated carcinogen by	
Repro	oductive toxicity			
<u>Produ</u>	uct:			
Effect	s on fertility	: Re	emarks: No data available	
Effect ment	s on foetal develop-	: Re	emarks: No data available	
Com	oonents:			
Distil	lates (petroleum), hy	drotreate	ed light paraffinic:	
-	oductive toxicity - As-	: -F	Fertility -	
Sessn	sessment		o toxicity to reproduction eratogenicity -	
		No	effects on or via lactation	
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		-	cts with 2,4,4-trimethy	Ipentene:
Repro	oductive toxicity - As- nent	: - Fertility		
			idence of adverse effec ased on animal experin	ts on sexual function and nents.
STOT	- single exposure			
Com	oonents:			
dilith	ium azelate:			
Asses	ssment		tance or mixture is not icant, single exposure.	classified as specific target
STOT	- repeated exposur	•		
<u>Com</u>	oonents:			
dilith	ium azelate:			
Asses	ssment		tance or mixture is not icant, repeated exposu	classified as specific target re.
Repe	ated dose toxicity			
Prod	uct:			
Rema	arks	: This infor	mation is not available.	
Aspir	ation toxicity			
Prod	uct:			
This i	nformation is not avai	able.		
<u>Com</u>	oonents:			
	lates (petroleum), hy be fatal if swallowed a	-	•	
dilith	ium azelate:			
No as	piration toxicity class	ication		
	bis[O,O-bis(2-ethylh piration toxicity class		phosphate):	
Furth	er information			
<u>Prod</u>	uct:			
Rema	arks	: Information	on given is based on da	ata on the components and
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		the toxicology of similar products	
Com	ponents:		
Hydr a Rema		eum), oxidized, Me esters: Information given is based on da the toxicology of similar products 	
SECTION	12. ECOLOGICAL INF	ORMATION	
Ecoto	oxicity		
<u>Prod</u> Toxic	<u>uct:</u> ity to fish	: Remarks: No data available	
	ity to daphnia and other tic invertebrates	: Remarks: No data available	
Toxic plants	ity to algae/aquatic s	: Remarks: No data available	
Toxic	ity to microorganisms	: Remarks: No data available	
<u>Com</u>	ponents:		
	m 12-hydroxystearate ity to fish	: LC50 (Oncorhynchus mykiss (rai Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 20 GLP: yes	
	ity to daphnia and other tic invertebrates	: EC50 (Daphnia magna (Water fle Exposure time: 48 h	ea)): > 100 mg/l
Toxic plants	ity to algae/aquatic s	: EC50 (Pseudokirchneriella subca mg/l Exposure time: 72 h Method: OECD Test Guideline 24	
		NOEC (Pseudokirchneriella subc	capitata (green algae)): 160





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			mg/l Exposure time: 72 h Method: OECD Test Guideline 20	01
dilithi	ium azelate:			
Toxici	ity to fish	:	LC50 (Oncorhynchus mykiss (rai Exposure time: 96 h	nbow trout)): > 100 mg/l
	ity to daphnia and other ic invertebrates		EC50 (Daphnia magna (Water fle Exposure time: 48 h	ea)): > 100 mg/l
Benzo	enamine, N-phenyl-, re	eacti	on products with 2,4,4-trimethy	lpentene:
Toxici	ity to fish	:	LC50 (Danio rerio (zebra fish)): > Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 20	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water fle Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 20	
Toxici plants	ity to algae/aquatic	:	EC50 (Desmodesmus subspicatu Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 20	
zinc k	bis[O,O-bis(2-ethylhex	(yl)]	bis(dithiophosphate):	
Toxici	ity to fish	:	LC50 (Oncorhynchus mykiss (rai Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 20 GLP: yes	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water fle Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 20 GLP: yes	
Toxici plants	ity to algae/aquatic	:	ErC50 (Desmodesmus subspicat Exposure time: 72 h Test Type: Growth inhibition	us (green algae)): 240 mg/
			45 (00	a brand of





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			Method: OECD Test Guideline 201 GLP: yes	
	ity to daphnia and othe ic invertebrates (Chron icity)		NOEC (Daphnia magna (Water flea) Exposure time: 21 d Method: OECD Test Guideline 211 GLP: yes Remarks: Information given is based similar substances.	
Toxici	ity to microorganisms	:	EC50 (Pseudomonas putida): 380 n Exposure time: 16 h Test Type: static test GLP: yes	ng/l
Persi	stence and degradab	ility		
<u>Produ</u>	uct:			
Biode	gradability	:	Remarks: No data available	
Physic ity	co-chemical removabil	- :	Remarks: No data available	
<u>Comp</u>	oonents:			
lithiu	m 12-hydroxystearate) :		
Biode	gradability	:	Primary biodegradation Inoculum: activated sludge Result: rapidly biodegradable Biodegradation: 74.7 % Exposure time: 28 d Method: OECD Test Guideline 3010	2
Distill	lates (petroleum), hyd	drotro	eated light paraffinic:	
Biode	gradability	:	Result: not rapidly degradable Biodegradation: 31 % Exposure time: 28 d	
Benzo	enamine, N-phenyl-, r	eacti	on products with 2,4,4-trimethylpe	ntene:
Biode	gradability	:	aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 1 % Exposure time: 28 d	
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			ethod: OECD Test Guideline 301 LP: yes	В
zinc	bis[O,O-bis(2-ethylh	exyl)] bis	(dithiophosphate):	
	egradability	: R Bi E M	esult: Not rapidly biodegradable odegradation: < 5 % cposure time: 27 d ethod: OECD Test Guideline 301 LP: no	D
Bioa	ccumulative potenti	al		
Prod	uct:			
Bioac	cumulation	be Ti	emarks: This mixture contains no e persistent, bioaccumulating and his mixture contains no substance ersistent and very bioaccumulatin	l toxic (PBT). e considered to be very
Com	ponents:			
lithiu	m 12-hydroxysteara	ite:		
	ion coefficient: n- ol/water	: lo	g Pow: 2.6	
Distil	llates (petroleum), h	ydrotreat	ed light paraffinic:	
	ion coefficient: n- ol/water	R	ow: > 6 emarks: Information given is base milar substances.	ed on data obtained from
dilith	ium azelate:			
Bioac	ccumulation	: Bi	oconcentration factor (BCF): 3.0	
	ion coefficient: n- ol/water	: lo	g Pow: -3.56	
Benz	enamine, N-phenyl-	, reaction	products with 2,4,4-trimethylp	entene:
	ion coefficient: n- ol/water	: lo	g Pow: > 5	
-	ocarbon waxes (pet	roleum), d	oxidized, Me esters:	
Bioac	cumulation	bi	emarks: This substance is not co oaccumulating and toxic (PBT). his substance is not considered to	
				a brand of



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51011	08/02/2022		e of first issue: 11/16/2021	07/28/2023
			very bioaccumulating (vPvB).	
		kyl)]	bis(dithiophosphate):	
	on coefficient: n- ol/water	:	log Pow: 3.59 (72 °F / 22 °C) pH: 5	
			Method: OECD Test Guideline 107 GLP: yes	7
Mobil	ity in soil			
<u>Produ</u>	<u>ict:</u>			
Mobili	ty	:	Remarks: No data available	
	oution among environ- al compartments	:	Remarks: No data available	
Other	adverse effects			
<u>Produ</u>	<u>ict:</u>			
Ozone	e-Depletion Potential	:	Regulation: 40 CFR Protection of E tection of Stratospheric Ozone - C/ Substances Remarks: This product neither con tured with a Class I or Class II ODS Clean Air Act Section 602 (40 CFR	AA Section 602 Class I tains, nor was manufac- S as defined by the U.S.
Additi matio	onal ecological infor- n	:	No information on ecology is availa	able.
Comp	oonents:			
Distill	lates (petroleum), hyd	drotr	eated light paraffinic:	
	ts of PBT and vPvB sment	:	Non-classified PBT substance Nor	n-classified vPvB substar

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):

Results of PBT and vPvB : Non-classified PBT substance Non-classified vPvB substance assessment

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil.
		Do not dispose of with domestic refuse. Dispose of as hazardous waste in compliance with local and





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		national regulations.	
Contaminated packaging		 Packaging that is not properly emp the unused product. Dispose of waste product or used local regulations. 	

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.

National Regulations

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	: Reproductive toxicity Serious eye damage or eye irritation	
SARA 313	The following components are subject to reporting levels es- tablished by SARA Title III, Section 313:	
	zinc bis[O,O- 4259-15-8 >= 1 - < 5 % bis(2-ethylhexyl)] bis(dithiophosph ate)	





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Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Butene, polymers 9003-29-6

>= 10 - < 20 %

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

zinc bis[O,O-bis(2- 4259-15-8 >= 1 - < 5 % ethylhexyl)] bis(dithiophosphate)

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

5	
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1
Pennsylvania Right To Know	
Dec-1-ene, homopolymer, hydrogenated Butene, polymers lithium 12-hydroxystearate Distillates (petroleum), hydrotreated light paraffinic dilithium azelate zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophosphate)	68037-01-4 9003-29-6 7620-77-1 64742-55-8 38900-29-7 4259-15-8
Maine Chemicals of High Concern	
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1
Vermont Chemicals of High Concern	
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1
Washington Chemicals of High Concern	
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1
New York City Hazardous Substances	
Distillates (petroleum), hydrotreated light paraffinic zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophosphate)	64742-55-8 4259-15-8





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California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

California List of Hazardous Substances					
Distillates (petroleum), hydrotreated light paraffinic zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	64742-55-8 4259-15-8				
California Permissible Exposure Limits for Chemical Contaminants					
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8				

SECTION 16. OTHER INFORMATION

Further information

Full text of other abbreviations

ACGIH		USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL		USA. NIOSH Recommended Exposure Limits
OSHA P0	•	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
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 P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA		8-hour time weighted average
03HA Z-17 TWA	·	o-nour 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 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





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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; TECI - Thailand Existing Chemicals 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

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