

SumTec	ch FMG-2			
Version 1.0	Revision Date: 10/29/2021		e of last issue: - e of first issue: 10/29/2021	Print Date: 10/29/2021
SECTION	1. IDENTIFICATION			
	uct name	:	SumTech FMG-2	
Articl	e-No.	:	320431	
Manu	ufacturer or supplier's	s deta	ails	
Com	Company name of supplier		Klüber Lubrication NA LP 9010 CR 2120 Tyler, Texas 75707 Phone: (903) 534-8021 Fax: (903) 581-4376	
			32 Industrial Drive Londonderry, NH 03053 Phone: (603) 647-4104 Fax: (603) 647-4106	
	il address of person onsible for the SDS	:	mcm@us.kluber.com Material Compliance Management	
Emei ber	rgency telephone num-	:	+1-517-545-7070 NCEC	
Reco	ommended use of the	cher	nical and restrictions on use	
Reco	mmended use	:	Grease	

#### **SECTION 2. HAZARDS IDENTIFICATION**

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

: Restricted to professional users.

Not a hazardous substance or mixture.

#### **GHS** label elements

Restrictions on use

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature

: Mineral oil.





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aluminium complex soap Synthetic hydrocarbon oil

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Mineral Oil	Proprietary	Trade secret (>= 60 - < 80)
Mineral Oil	Proprietary	Trade secret (>= 5 - < 10)
(benzoato-	54326-11-3	Trade secret (>= 5 - < 10)
O,O')hydroxy(octadecanoato-		
O,O')aluminium		
Dec-1-ene, homopolymer, hydrogen-	68037-01-4	Trade secret (>= $1 - < 5$ )
ated		
disodium sebacate	17265-14-4	Trade secret (>= 1 - < 5)
Zinc oxide	1314-13-2	Trade secret (>= 1 - < 5)
Silane, dichlorodimethyl-, reaction	68611-44-9	Trade secret (>= 1 - < 5)
products with silica		

Actual concentration is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

lf inhaled	:	Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respira- tion.
In case of skin contact	:	Remove contaminated clothing. If irritation develops, get med- ical attention. Wash off with soap and water. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If eye irritation persists, consult a specialist.
If swallowed	:	Move the victim to fresh air. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	No information available. None known.





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Notes 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 Oxides of phosphorus Metal oxides
Further information :	:	Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Special protective equipment : for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

#### 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	:	Do not allow contact with soil, surface or ground water. If the product contaminates rivers and lakes or drains inform respective authorities.
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 ap- plication area. Wash hands and face before breaks and immediately after handling the product.
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		Do not ingest. Do not repack. These safety instructions also app may still contain product residues. Keep container closed when not in	
Conditions for safe storage		: Store in original container. Keep container closed when not in Keep in a dry, cool and well-ventila Containers which are opened mus kept upright to prevent leakage. Store in accordance with the partic Keep in properly labelled containe	ated place. t be carefully resealed and cular national regulations.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Mineral Oil	Proprietary	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Mineral Oil	Proprietary	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
(benzoato- O,O')hydroxy(octadecanoato- O,O')aluminium	54326-11-3	TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH
Zinc oxide	1314-13-2	TWA (Res- pirable par- ticulate mat- ter)	2 mg/m3	ACGIH
		STEL (Res- pirable par- ticulate mat- ter)	10 mg/m3	ACGIH

#### Components with workplace control parameters



#### SAFETY DATA SHEET US



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1		I		TWA (Dust)	5 mg/m3	NIOSH REI	
				TWA	5 mg/m3	NIOSH REL	
				(Fumes)	og,o		
				ST (Fumes)	10 mg/m3	NIOSH REI	
				C (Dust)	15 mg/m3	NIOSH REI	
				TWA (total dust)	15 mg/m3	OSHA Z-1	
				TWA (respir- able fraction)	5 mg/m3	OSHA Z-1	
				TWA (Fumes)	5 mg/m3	OSHA Z-1	
				TWA (Total dust)	10 mg/m3	OSHA P0	
				TWA (respir- able dust fraction)	5 mg/m3	OSHA P0	
				TWA (Fumes)	5 mg/m3	OSHA P0	
				STEL (Fumes)	10 mg/m3	OSHA P0	
Engi	neering measures	:	none				
Perso	onal protective equi	pment					
Resp	iratory protection	:	Not required;	except in case c	of aerosol formation	on.	
Fil	lter type	:	Filter type P				
ł	Hand protection						
Ma	aterial	:	Nitrile rubber				
	eak through time	:	> 10 min				
Pr	otective index	:	Class 1				
Re	emarks	:			ntact use protecti imongst other thi		

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 The type of protective equipment must be selected according Protective measures : to the concentration and amount of the dangerous substance at the specific workplace. Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

Wash face, hands and any exposed skin thoroughly after Hygiene measures : handling.

cific work-place.





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SEC	SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES								
	Appearance : paste								
	Colour			white					
	Odour			characteristic					
		Threshold		No data available					
	Cubu		•						
	рН		:	Not applicable					
	Melting	point/range	:	No data available					
	Boiling	point/boiling range	:	No data available					
	Flash p	point	:	Not applicable					
	Evapor	ation rate	:	No data available					
	Flamm	ability (solid, gas)	:	Combustible Solids					
	Self-igr	nition	:	No data available					
		explosion limit / Upper ability limit	r :	No data available					
		explosion limit / Lower ability limit	:	No data available					
	Vapour	rpressure	:	< 0.001 hPa (68 °F / 20 °C)					
	Relativ	e vapour density	:	No data available					
	Relativ	e density	:	0.89 (68 °F / 20 °C) Reference substance: Water The value is calculated					
	Bulk de	ensity	:	No data available					
	Solubili Wat	ity(ies) ter solubility	:	insoluble					
	Solu	ubility in other solvents	6 :	No data available					
	Partitio octano	n coefficient: n- I/water	:	No data available					
	Auto-ig	nition temperature	:	No data available					





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mposition temperature	: No data available	
sity scosity, dynamic	: No data available	
scosity, kinematic	: Not applicable	
sive properties	: Not explosive	
zing properties	: No data available	
mation point	: No data available	
	10/29/2021 mposition temperature sity scosity, dynamic scosity, kinematic sive properties zing properties	10/29/2021Date of first issue: 10/29/2021mposition temperature:sity scosity, dynamic:No data availablescosity, kinematic:sive properties:Not explosivezing properties: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

#### Product:

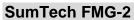
Acute oral toxicity	:	Remarks: This information is not available.
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Remarks: This information is not available.
<u>Components:</u>		
Mineral Oil:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute inhalation toxicity	:	LC50 (Rat): > 5 mg/l





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			Test atmosphere: dust/mist Method: OECD Test Guideline 40 GLP: yes Assessment: The substance or m tion toxicity	
A	cute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 40 GLP: yes Assessment: The substance or m toxicity	
м	ineral Oil:			
	cute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 40	)1
A	cute inhalation toxicity	:	LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 40 Assessment: The substance or m tion toxicity	
A	cute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 40 Assessment: The substance or m toxicity	
D	ec-1-ene, homopolymer,	hvdr	ogenated:	
	cute oral toxicity	:	-	23
A	cute inhalation toxicity	:	LC50 (Rat): > 5.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 40 GLP: yes Assessment: The substance or m tion toxicity	-
A	cute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 40 Assessment: The substance or m toxicity	
ы	sodium sebacate:			
	cute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 40 GLP: no	)1







Juinter				
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Acute	e dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mi toxicity	
Zinc	oxide:			
	e oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 40′	1
Acute	inhalation toxicity	:	LC50 (Rat): > 5.7 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mi tion toxicity	
Acute	e dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mi toxicity	
Silan	o dichlorodimothyl-	roact	tion products with silica:	
	e oral toxicity		LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 40'	1
Acute	e dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg	
Skin	corrosion/irritation			
Prod	uct:			
Rema		:	This information is not available.	
Com	oonents:			
Mine	ral Oil:			
Speci	es ssment od	:	Rabbit No skin irritation OECD Test Guideline 404 No skin irritation yes	
Mine	ral Oil:			
Speci	es ssment od	:	Rabbit No skin irritation OECD Test Guideline 404 No skin irritation yes	





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Dec-1-ene, homopolymer, h	ydr	ogenated:
Species	:	Rabbit
Assessment	:	No skin irritation
Method		OECD Test Guideline 404
Result	:	No skin irritation
GLP	:	yes
disodium sebacate:		
Species	:	Rabbit
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
GLP	:	no
Zinc oxide:		
Species	:	Rabbit
Assessment		No skin irritation
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
Silane, dichlorodimethyl-, re	eact	tion products with silica:
Species	:	Rabbit
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
Serious eye damage/eye irri	itati	on
Product:		
Remarks	:	This information is not available.
Components:		
Mineral Oil:		
Species	:	Rabbit
Result	:	No eye irritation
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
GLP	:	yes
Mineral Oil:		
Species	:	Rabbit
Result	:	No eye irritation
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
GLP	:	yes





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Dec-1	-ene, homopolyme	er, hydrogenated:	
Speci		: Rabbit	
Resul		: No eye irritation	
	ssment	: No eye irritation	
Metho	bd	: OECD Test Guideline 405	
GLP		: yes	
disod	lium sebacate:		
Speci	es	: Rabbit	
Resul		: Irritating to eyes.	
Asses	ssment	: Irritating to eyes.	
Metho	bd	: OECD Test Guideline 437	
GLP		: yes	
Zinc	oxide:		
Speci		: Rabbit	
Resul		: No eye irritation	
	ssment	: No eye irritation	
Metho		: OECD Test Guideline 405	
GLP	Ju	: yes	
•••			
	· · · · · · · · · · · · · · · · · · ·	I-, reaction products with silica:	
Speci		: Rabbit	
Resul		: No eye irritation	
	sment	: No eye irritation	
Metho	bd	: OECD Test Guideline 405	
Respi	iratory or skin sens	sitisation	
<u>Produ</u>	uct:		
Rema	arks	: This information is not available.	
Comp	oonents:		
Miner	ral Oil:		
Test T		: Maximisation Test	
Speci			
•		: Guinea pig : Does not cause skin sensitisation.	
	ssment		
Metho		: OECD Test Guideline 406	
Resul	ι	: Does not cause skin sensitisation.	
GLP		: yes	
Miner	al Oil:		
Test T	Гуре	: Buehler Test	
Speci		: Guinea pig	
	ssment	: Does not cause skin sensitisation.	
Metho		: OECD Test Guideline 406	
Resul		: Does not cause skin sensitisation.	
	-		





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GLP		: yes		
Dec-	1-ene, homopolyme	r, hydrogenate	d:	
Test	Tvpe	: Maximi	sation Test	
Spec		: Guinea		
	ssment		ot cause skin sensitisatior	٦.
Meth			Test Guideline 406	
Resu			ot cause skin sensitisatior	٦.
GLP		: yes		
disod	dium sebacate:			
Spec	ies	: Guinea	pig	
	ssment		cause sensitisation on lal	boratory animals.
Resu			cause sensitisation on lal	
Zinc	oxide:			
Test	Type	· Maximi	sation Test	
Spec		: Guinea		
•	ssment		ot cause skin sensitisatior	h
Meth			Test Guideline 406	
Resu			ot cause skin sensitisatior	
GLP	it.	: yes		1.
Asse: Resu	ssment It		ot cause skin sensitisatior ot cause skin sensitisatior	
Germ	n cell mutagenicity			
<u>Prod</u>	uct:			
Geno	otoxicity in vitro	: Remarl	ks: No data available	
Geno	otoxicity in vivo	: Remarl	ks: No data available	
Com	ponents:			
-	ral Oil:			
Geno	otoxicity in vitro	Methoo tation a	ssay) negative	a typhimurium - reverse mu
	n cell mutagenicity - ssment		n bacterial or mammalian nic effects.	cell cultures did not show
Mine	ral Oil:			
Germ	n cell mutagenicity -	: Tests o	n bacterial or mammalian	cell cultures did not show
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Asses	sment	mutagenic effects.	
Dec-1	-ene, homopolyme	, hydrogenated:	
Genot	oxicity in vitro	: Test Type: Ames test Method: Mutagenicity (Esche assay) Result: negative GLP: yes	erichia coli - reverse mutation
	cell mutagenicity - sment	: Animal testing did not show a	any mutagenic effects.
disod	ium sebacate:		
	cell mutagenicity - sment	: Tests on bacterial or mamma mutagenic effects.	alian cell cultures did not show
Zinc c	oxide:		
	cell mutagenicity - sment	: Tests on bacterial or mamma mutagenic effects.	lian cell cultures did not show
Silane	e, dichlorodimethyl-	, reaction products with silica:	
	cell mutagenicity - sment	: Tests on bacterial or mamma mutagenic effects.	alian cell cultures did not show
Carcir	nogenicity		
Produ	ict:		
Rema	rks	: No data available	
<u>Comp</u>	onents:		
Miner	al Oil:		
Carcin ment	ogenicity - Assess-	: No evidence of carcinogenici	ty in animal studies.
Miner	al Oil:		
Carcin ment	ogenicity - Assess-	: No evidence of carcinogenici	ty in animal studies.
Dec-1	-ene, homopolymei	, hydrogenated:	
Carcin ment	nogenicity - Assess-	: Not classifiable as a human o	carcinogen.
Zinc o	oxide:		





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Silan	e, dichlorodimeth	yl-, read	tion products with silica:	
Carcii ment	nogenicity - Assess	- :	No evidence of carcinogenicity	in animal studies.
IARC			f this product present at levels gre bable, possible or confirmed huma	
IARC OSH/	A No comp		f this product present at levels gre f regulated carcinogens.	eater than or equal to 0.1% is
NTP			f this product present at levels greater of the product present at levels grea	
Repro	oductive toxicity			
Produ	uct:			
	ts on fertility	:	Remarks: No data available	
Effect ment	ts on foetal develop	- :	Remarks: No data available	
<u>Com</u>	oonents:			
Mine	ral Oil:			
	oductive toxicity - As	As- :	- Fertility -	
sessn	nent		No toxicity to reproduction - Teratogenicity -	
			No effects on or via lactation	
Mine	ral Oil:			
	oductive toxicity - As	s- :	- Fertility -	
sessn	nent		No toxicity to reproduction - Teratogenicity -	
			No effects on or via lactation	
	I-ene, homopolym		-	
Reproductive toxicity - As- sessment		S- :		
00001			No toxicity to reproduction - Teratogenicity -	
			Did not show teratogenic effect	s in animal experiments.
disod	lium sebacate:			
Repro sessn	oductive toxicity - As nent	S- :	- Fertility -	
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		No toxicity to reproduction - Teratogenicity -	on
		No effects on or via lact	ation
Zinc	oxide:		
	oductive toxicity - As-	: - Fertility -	
sessn	nent	No toxicity to reproduction - Teratogenicity -	on
		No toxicity to reproduction	on
Silan	e, dichlorodimethyl-,	eaction products with silica	:
	oductive toxicity - As-	: - Fertility -	
sessn	nent	No toxicity to reproduction - Teratogenicity -	on
		No effects on or via lact	ation
STOT	- single exposure		
Comp	oonents:		
Miner	ral Oil:		
Asses	ssment	: The substance or mixtur organ toxicant, single ex	re is not classified as specific target posure.
Miner	ral Oil:		
Asses	ssment	: The substance or mixtur organ toxicant, single ex	re is not classified as specific target posure.
Zinc	oxide:		
Asses	ssment	: The substance or mixtur organ toxicant, single ex	re is not classified as specific target cposure.
Silan	e, dichlorodimethyl-,	eaction products with silica	1:
Asses	ssment	: The substance or mixtur organ toxicant, single ex	re is not classified as specific target posure.
STOT	- repeated exposure		
Comp	oonents:		
Miner	ral Oil:		
Asses	ssment	: The substance or mixtur organ toxicant, repeated	re is not classified as specific target





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	<b>ral Oil:</b> ssment		he substance or mixture is not o gan toxicant, repeated exposu	
	oxide: ssment		he substance or mixture is not o gan toxicant, repeated exposu	
Silan	e dichlorodimethy	l- reactio	n products with silica:	
	ssment	: T	he substance or mixture is not o gan toxicant, repeated exposu	
Repe	eated dose toxicity			
<u>Prod</u> Rema		: Т	his information is not available.	
<u>Com</u>	ponents:			
Mine	ral Oil:			
NOAI Expo	EL sure time		800 mg/kg ) d	
Aspii	ration toxicity			
<u>Prod</u> This i	uct: Information is not ava	ailable.		
Com	ponents:			
	ral Oil: spiration toxicity clas	sification		
	ral Oil: be fatal if swallowed	and enters	airways.	
	1-ene, homopolyme be fatal if swallowed			
	<b>dium sebacate:</b>	sification		
Zinc	oxide:			
No as	spiration toxicity class	sification		
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#### Silane, dichlorodimethyl-, reaction products with silica:

No aspiration toxicity classification

#### **Further information**

#### Product:

Remarks

: Information given is based on data on the components and the toxicology of similar products.

#### **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity	
-------------	--

#### Product:

Toxicity to fish	:	Remarks: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available
Components:		
Mineral Oil:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): > 100 mg/l Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): >= 1,000 mg/l Exposure time: 21 d
Mineral Oil:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203





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	exicity to daphnia and other uatic invertebrates	:	LC50 (Daphnia magna (Water flea)): > 10 Exposure time: 48 h Method: OECD Test Guideline 202	00 mg/l
	exicity to algae/aquatic ants	:	NOEC (Pseudokirchneriella subcapitata mg/l Exposure time: 72 h Method: OECD Test Guideline 201	(green algae)): > 100
	exicity to fish (Chronic tox- ty)	:	NOEC (Oncorhynchus mykiss (rainbow t Exposure time: 28 d Remarks: The value is given based on a using OECD Toolbox, DEREK, VEGA QS (CAESAR models), etc.	SAR/AAR approach
ac	exicity to daphnia and other uatic invertebrates (Chron- toxicity)	:	NOEC (Daphnia magna (Water flea)): >= Exposure time: 21 d Remarks: The value is given based on a using OECD Toolbox, DEREK, VEGA QS (CAESAR models), etc.	SAR/AAR approach
Тс	exicity to microorganisms	:	LC50 (Bacteria): > 1,000 mg/l Exposure time: 40 h Test Type: Growth inhibition	
De	ec-1-ene, homopolymer, h	vdro	ogenated:	
	exicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow tro Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes	out)): > 1,000 mg/l
	exicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202 GLP: yes	,000 mg/l
	exicity to algae/aquatic ants	:	ErC50 (Scenedesmus capricornutum (fre 1,000 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 GLP: yes	sh water algae)): >
ac	exicity to daphnia and other uatic invertebrates (Chron-toxicity)	:	NOEC (Daphnia magna (Water flea)): 12 Exposure time: 21 d	5 mg/l

#### disodium sebacate:





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	Toxicity	r to fish	:	LC50 (Danio rerio (zebra fish)): > 1 Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes	-
		to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202 GLP: yes	
	Toxicity plants	v to algae/aquatic	:	EL50 (Skeletonema costatum (ma Exposure time: 72 h Test Type: static test Method: ISO 10253 GLP: yes	rine diatom)): 38.7 mg/l
	Zinc ox	(ido)			
	Toxicity		:	LC50 (Danio rerio (zebra fish)): 1.5 Exposure time: 96 h Test Type: static test	55 mg/l
		to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	
	Toxicity plants	v to algae/aquatic	:	EC50 (Pseudokirchneriella subcap mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes	
	M-Facto icity)	or (Acute aquatic tox-	:	1	
		v to daphnia and other invertebrates (Chron- ty)		(Daphnia magna (Water flea)): 0.0 Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211	-
	M-Factor toxicity)	or (Chronic aquatic	:	1	
	Toxicity	to microorganisms	:	EC50 (activated sludge): > 1,000 r Exposure time: 3 h Method: OECD Test Guideline 209 GLP: yes	-

Silane, dichlorodimethyl-, reaction products with silica:





rsion )	Revision Date: 10/29/2021		e of last issue: - e of first issue: 10/29/2021	Print Date: 10/29/2021
Toxic	ity to fish	:	LC50 (Danio rerio (zebra fish)): > 10,0 Exposure time: 96 h Method: OECD Test Guideline 203	000 mg/l
Persi	stence and degradabi	lity		
Prod	uct:			
Biode	egradability	:	Remarks: No data available	
Physi ity	co-chemical removabil-	:	Remarks: No data available	
<u>Com</u>	ponents:			
Mine	ral Oil:			
Biode	gradability	:	Primary biodegradation Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 31 % Exposure time: 28 d Method: OECD Test Guideline 301B	
Mine	ral Oil:			
Biode	gradability	:	Biodegradation: 31 % Exposure time: 28 d	
Dec-1	I-ene, homopolymer, I	nydr	ogenated:	
Biode	gradability	:	Primary biodegradation Inoculum: activated sludge Result: Not readily biodegradable. Method: OECD Test Guideline 301B	
disod	lium sebacate:			
Biode	gradability	:	Result: Biodegradable Biodegradation: 89 % Exposure time: 28 d	
Zinc	oxide:			
Biode	egradability	:	Remarks: The methods for determining not applicable to inorganic substance	
Silan	e, dichlorodimethyl-, r	eact	ion products with silica:	
Biode	egradability	:	Result: Not readily biodegradable.	





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Bioac	cumulative potential			
Produ	uct:			
	cumulation	:	Remarks: This mixture contains be persistent, bioaccumulating a This mixture contains no substa persistent and very bioaccumula	and toxic (PBT). Ince considered to be very
Comp	oonents:			
Miner	al Oil:			
	on coefficient: n- ol/water	:	Pow: > 6	
Miner	al Oil:			
	on coefficient: n- ol/water	:	log Pow: > 6	
Dec-1	-ene, homopolymer, I	hydr	ogenated:	
	on coefficient: n- ol/water	:	log Pow: > 6.5 (68 °F / 20 °C)	
disod	ium sebacate:			
	on coefficient: n- ol/water	:	log Pow: -4.9 (68 °F / 20 °C) pH: 7.8	
Silane	e, dichlorodimethyl-, ı	react	tion products with silica:	
	on coefficient: n- ol/water	:	Remarks: Not applicable	
Mobil	ity in soil			
<u>Produ</u>	uct:			
Mobili		:	Remarks: No data available	
	oution among environ- al compartments	:	Remarks: No data available	
Other	adverse effects			
Produ	<u>ict:</u>			
Ozone	e-Depletion Potential	:	Regulation: 40 CFR Protection of tection of Stratospheric Ozone - Substances Remarks: This product neither of tured with a Class I or Class II O Clean Air Act Section 602 (40 C	- CAA Section 602 Class I contains, nor was manufac- DDS as defined by the U.S.





ersion D	Revision Date: 10/29/2021		of last issue: - of first issue: 10/29/2021	Print Date: 10/29/2021
Addit matic	•	:	Harmful to aquatic life with long l	asting effects.
Com	ponents:			
Resu	<b>ral Oil:</b> Its of PBT and vPvB ssment	:	Non-classified PBT substance N	on-classified vPvB substan
Mine	ral Oil:			
	Its of PBT and vPvB ssment	:	This substance is not considered lating and toxic (PBT).	I to be persistent, bioaccum
Dec-	1-ene, homopolymer,	hydro	genated:	
	Its of PBT and vPvB ssment	:	Non-classified PBT substance N	on-classified vPvB substan
Zinc	oxide:			
	lts of PBT and vPvB ssment	:	Remarks: Not applicable	
Silan	e, dichlorodimethyl-,	reacti	on products with silica:	
	Its of PBT and vPvB	:	Non-classified vPvB substance N	Non-classified PBT substan

#### 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 national regulations.	
Contaminated packaging	Packaging that is not properly emptied must be disposed of the unused product. Dispose of waste product or used containers according to local regulations.	as

### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

UNRTDG





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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**

#### **EPCRA - Emergency Planning and Community Right-to-Know Act**

#### **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	:	No SARA Hazard	S	
SARA 313	:	: The following components are subject to reporting le tablished by SARA Title III, Section 313:		
		Zinc oxide	1314-13-2	>= 1 - < 5 %

#### **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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **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



# SAFETY DATA SHEET



# SumTech FMG-2

Summer			
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This	Zinc oxide product does not cor	1314-13-2 ntain any priority pollutants related to the U.	>= 1 - < 5 % S. Clean Water Act
US S	tate Regulations		
Mass	achusetts Right To	o Know	
	Mineral Oil Zinc oxide		Proprietary 1314-13-2
Penn	sylvania Right To I	Know	
		')hydroxy(octadecanoato-O,O')aluminium nopolymer, hydrogenated	Proprietary Proprietary 54326-11-3 68037-01-4 1314-13-2
Main	e Chemicals of Hig	h Concern	
	Product does n	ot contain any listed chemicals	
Verm	nont Chemicals of H Product does n	<b>ligh Concern</b> ot contain any listed chemicals	
Wash	nington Chemicals Product does n	of High Concern ot contain any listed chemicals	
New	York City Hazardou Mineral Oil Zinc oxide 2,6-Di-tert-buty		Proprietary 1314-13-2 128-37-0
Calif	ornia Prop. 65		
	product does not cor cts, or any other repr	ntain any chemicals known to State of Califo oductive harm.	ornia to cause cancer, birth
Calif	ornia List of Hazarc	lous Substances	
	Mineral Oil Zinc oxide		Proprietary 1314-13-2
Calif	ornia Permissible E	exposure Limits for Chemical Contamina	nts Dronrietory

Mineral Oil	Proprietary
Mineral Oil	Proprietary
Zinc oxide	1314-13-2

#### **TSCA** list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.





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#### **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. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000				
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants				
ACGIH / TWA	:	8-hour, time-weighted average				
ACGIH / STEL	:	Short-term exposure limit				
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				
NIOSH REL / C	:	Ceiling value not be exceeded at any time.				
OSHA P0 / TWA	:	8-hour time weighted average				
OSHA P0 / STEL	:	Short-term exposure limit				
OSHA Z-1 / TWA	:	8-hour time weighted average				

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the 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;



# SAFETY DATA SHEET



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UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date

10/29/2021

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