

### SumTech FMG-1

Version Revision Date: Date of last issue: -Print Date: 10/27/2021 Date of first issue: 10/27/2021 10/28/2021 1.0

### **SECTION 1. IDENTIFICATION**

: SumTech FMG-1 Product name

320443 Article-No.

Manufacturer or supplier's details

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

E-mail address of person

: mcm@us.kluber.com

responsible for the SDS Material Compliance Management

Emergency telephone num-

ber

: +1-517-545-7070 NCEC

#### Recommended use of the chemical and restrictions on use

Recommended use : Grease

Restrictions on use Restricted to professional users.

## **SECTION 2. HAZARDS IDENTIFICATION**

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

Not a hazardous substance or mixture.

#### **GHS** label elements

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.



### SumTech FMG-1

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

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**

If 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.





SumTech FMG-1

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

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.



**SumTech FMG-1** 

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

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

CAS-No.	Value type (Form of	Control parameters / Permissible	Basis
Proprietary			OSHA Z-1
Гериоди	TWA (Inhal-	5 mg/m3	ACGIH
	able particu-		
	TWA (Mist)	5 mg/m3	OSHA P0
	TWA (Mist)		NIOSH REL
	ST (Mist)	10 mg/m3	NIOSH REL
Proprietary	TWA (Mist)	5 mg/m3	OSHA Z-1
	TWA (Inhal-	5 mg/m3	ACGIH
	\ /		OSHA P0
	TWA (Mist)	5 mg/m3	NIOSH REL
	ST (Mist)	10 mg/m3	NIOSH REL
54326-11-3		10 mg/m3	ACGIH
		3 mg/m3	ACGIH
1011100		0 / 0	400111
1314-13-2		2 mg/m3	ACGIH
		10 mg/m2	ACGIH
		io ilig/ilio	ACGIN
		exposure) Proprietary TWA (Mist) TWA (Inhalable particulate matter) TWA (Mist) TWA (Mist) TWA (Mist) ST (Mist) Proprietary TWA (Mist) TWA (Inhalable particulate matter) TWA (Mist) TWA (Mist) TWA (Mist) TWA (Mist) TWA (Mist) TWA (Respirable particulate matter) TWA (Respirable particulate matter)	Proprietary TWA (Mist) 5 mg/m3  TWA (Inhalable particulate matter)  TWA (Mist) 5 mg/m3  TWA (Mist) 5 mg/m3  TWA (Mist) 5 mg/m3  TWA (Mist) 5 mg/m3  ST (Mist) 10 mg/m3  Proprietary TWA (Mist) 5 mg/m3  TWA (Inhalable particulate matter)  TWA (Mist) 5 mg/m3  TWA (Mist) 5 mg/m3  TWA (Mist) 5 mg/m3  ST (Mist) 10 mg/m3  10 mg/m3  11314-13-2 TWA (Respirable particulate matter)  TWA (Respirable particulate matter)  TWA (Respirable particulate matter)  STEL (Respirable particulate matter)  STEL (Respirable particulate matter)  STEL (Respirable particulate matter)



## **SumTech FMG-1**

VersionRevision Date:Date of last issue: -Print Date:1.010/27/2021Date of first issue: 10/27/202110/28/2021

TWA (Dust)	5 mg/m3	NIOSH REL
TWA	5 mg/m3	NIOSH REL
(Fumes)		
ST (Fumes)	10 mg/m3	NIOSH REL
C (Dust)	15 mg/m3	NIOSH REL
TWA (total dust)	15 mg/m3	OSHA Z-1
TWA (respirable fraction)	5 mg/m3	OSHA Z-1
TWA (Fumes)	5 mg/m3	OSHA Z-1
TWA (Total dust)	10 mg/m3	OSHA P0
TWA (respirable dust fraction)	5 mg/m3	OSHA P0
TWA (Fumes)	5 mg/m3	OSHA P0
STEL (Fumes)	10 mg/m3	OSHA P0

Engineering measures : none

## Personal protective equipment

Respiratory protection : Not required; except in case of aerosol formation.

Filter type : Filter type P

Hand protection

Material : Nitrile rubber
Break through time : > 10 min
Protective index : Class 1

Remarks : For prolonged or repeated contact use 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

Protective measures : The type of protective equipment must be selected according

to the concentration and amount of the dangerous substance

at the specific workplace.

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the spe-

cific work-place.

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

handling.



## **SumTech FMG-1**

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : paste

Colour : white

Odour : characteristic

Odour Threshold : No data available

pH : Not applicable

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : No data available

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 :  $0.88 (68 \,^{\circ}\text{F} / 20 \,^{\circ}\text{C})$ 

Reference substance: Water The value is calculated

Bulk density : No data available

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available



SumTech FMG-1

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : No data available

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**

**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.

**Components:** 

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

Exposure time: 4 h



SumTech FMG-1

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: ves

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Assessment: The substance or mixture has no acute dermal

toxicity

Mineral Oil:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Dec-1-ene, homopolymer, hydrogenated:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 423

GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

disodium sebacate:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

GLP: no



SumTech FMG-1

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Assessment: The substance or mixture has no acute dermal

toxicity

Zinc oxide:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

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 mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Assessment: The substance or mixture has no acute dermal

toxicity

Silane, dichlorodimethyl-, reaction products with silica:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

**Product:** 

Remarks : This information is not available.

**Components:** 

Mineral Oil:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Mineral Oil:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes



## SumTech FMG-1

VersionRevision Date:Date of last issue: -Print Date:1.010/27/2021Date of first issue: 10/27/202110/28/2021

## Dec-1-ene, homopolymer, hydrogenated:

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-, reaction products with silica:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

### Serious eye damage/eye irritation

## **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



### SumTech FMG-1

VersionRevision Date:Date of last issue: -Print Date:1.010/27/2021Date of first issue: 10/27/202110/28/2021

## Dec-1-ene, homopolymer, hydrogenated:

Species : Rabbit

Result : No eye irritation
Assessment : No eye irritation

Method : OECD Test Guideline 405

GLP : yes

### disodium sebacate:

Species : Rabbit

Result : Irritating to eyes.
Assessment : Irritating to eyes.

Method : OECD Test Guideline 437

GLP : yes

#### Zinc oxide:

Species : Rabbit

Result : No eye irritation
Assessment : No eye irritation

Method : OECD Test Guideline 405

GLP : yes

### Silane, dichlorodimethyl-, reaction products with silica:

Species : Rabbit

Result : No eye irritation
Assessment : No eye irritation

Method : OECD Test Guideline 405

## Respiratory or skin sensitisation

### **Product:**

Remarks : This information is not available.

## **Components:**

### Mineral Oil:

Test Type : Maximisation Test

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

GLP : yes

### Mineral Oil:

Test Type : Buehler Test Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.



### SumTech FMG-1

VersionRevision Date:Date of last issue: -Print Date:1.010/27/2021Date of first issue: 10/27/202110/28/2021

GLP : yes

Dec-1-ene, homopolymer, hydrogenated:

Test Type : Maximisation Test

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

GLP : yes

disodium sebacate:

Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals.
Result : Did not cause sensitisation on laboratory animals.

Zinc oxide:

Test Type : Maximisation Test

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

GLP : yes

Silane, dichlorodimethyl-, reaction products with silica:

Assessment : Does not cause skin sensitisation. Result : Does not cause skin sensitisation.

Germ cell mutagenicity

**Product:** 

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Components:** 

Mineral Oil:

Genotoxicity in vitro : Test Type: Ames test

Method: Mutagenicity (Salmonella typhimurium - reverse mu-

tation assay) Result: negative GLP: yes

Germ cell mutagenicity -

: Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Mineral Oil:

Assessment

Germ cell mutagenicity - : Tests on bacterial or mammalian cell cultures did not show



SumTech FMG-1

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

Assessment mutagenic effects.

Dec-1-ene, homopolymer, hydrogenated:

Genotoxicity in vitro : Test Type: Ames test

Method: Mutagenicity (Escherichia coli - reverse mutation

assay)

Result: negative

GLP: yes

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects.

disodium sebacate:

Germ cell mutagenicity -

Assessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Zinc oxide:

Germ cell mutagenicity -

Assessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Silane, dichlorodimethyl-, reaction products with silica:

Germ cell mutagenicity -

Assessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Carcinogenicity

**Product:** 

Remarks : No data available

**Components:** 

Mineral Oil:

Carcinogenicity - Assess-

ment

No evidence of carcinogenicity in animal studies.

Mineral Oil:

Carcinogenicity - Assess-

ment

No evidence of carcinogenicity in animal studies.

Dec-1-ene, homopolymer, hydrogenated:

Carcinogenicity - Assess-

ment

: Not classifiable as a human carcinogen.

Zinc oxide:

Carcinogenicity - Assess-

Not classifiable as a human carcinogen.

ment



SumTech FMG-1

VersionRevision Date:Date of last issue: -Print Date:1.010/27/2021Date of first issue: 10/27/202110/28/2021

Silane, dichlorodimethyl-, reaction products with silica:

Carcinogenicity - Assess- : No evidence of carcinogenicity in animal studies.

ment

IARC No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

IARC

**OSHA**No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

**Product:** 

Effects on fertility : Remarks: No data available

Effects on foetal develop-

ment

Remarks: No data available

**Components:** 

Mineral Oil:

Reproductive toxicity - As-

sessment

: - Fertility -

No toxicity to reproduction

- Teratogenicity -

No effects on or via lactation

Mineral Oil:

Reproductive toxicity - As-

sessment

: - Fertility -

No toxicity to reproduction

- Teratogenicity -

No effects on or via lactation

Dec-1-ene, homopolymer, hydrogenated:

Reproductive toxicity - As-

: - Fertility -

sessment

No toxicity to reproduction

- Teratogenicity -

Did not show teratogenic effects in animal experiments.

disodium sebacate:

Reproductive toxicity - As-

: - Fertility -

sessment



SumTech FMG-1

VersionRevision Date:Date of last issue: -Print Date:1.010/27/2021Date of first issue: 10/27/202110/28/2021

No toxicity to reproduction

- Teratogenicity -

No effects on or via lactation

Zinc oxide:

Reproductive toxicity - As-

sessment

- Fertility -

No toxicity to reproduction

- Teratogenicity -

No toxicity to reproduction

Silane, dichlorodimethyl-, reaction products with silica:

Reproductive toxicity - As-

sessment

- Fertility -

No toxicity to reproduction

- Teratogenicity -

No effects on or via lactation

STOT - single exposure

**Components:** 

Mineral Oil:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

Mineral Oil:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

Zinc oxide:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

Silane, dichlorodimethyl-, reaction products with silica:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure

**Components:** 

Mineral Oil:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.



**SumTech FMG-1** 

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

Mineral Oil:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Zinc oxide:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Silane, dichlorodimethyl-, reaction products with silica:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

**Product:** 

Remarks : This information is not available.

**Components:** 

**Mineral Oil:** 

NOAEL : 1,800 mg/kg

Exposure time : 90 d

**Aspiration toxicity** 

**Product:** 

This information is not available.

**Components:** 

Mineral Oil:

No aspiration toxicity classification

Mineral Oil:

May be fatal if swallowed and enters airways.

Dec-1-ene, homopolymer, hydrogenated:

May be fatal if swallowed and enters airways.

disodium sebacate:

No aspiration toxicity classification

Zinc oxide:

No aspiration toxicity classification



SumTech FMG-1

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

### 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



SumTech FMG-1

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

NOEC (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 28 d

Remarks: The value is given based on a SAR/AAR approach

using OECD Toolbox, DEREK, VEGA QSAR models

(CAESAR models), etc.

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): >= 1,000 mg/l

Exposure time: 21 d

Remarks: The value is given based on a SAR/AAR approach

using OECD Toolbox, DEREK, VEGA QSAR models

(CAESAR models), etc.

Toxicity to microorganisms : LC50 (Bacteria): > 1,000 mg/l

Exposure time: 40 h

Test Type: Growth inhibition

Dec-1-ene, homopolymer, hydrogenated:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h Test Type: Immobilization

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Scenedesmus capricornutum (fresh water algae)): >

1,000 mg/l

Exposure time: 72 h

Test Type: Growth inhibition Method: OECD Test Guideline 201

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 125 mg/l

Exposure time: 21 d

disodium sebacate:



**SumTech FMG-1** 

VersionRevision Date:Date of last issue: -Print Date:1.010/27/2021Date of first issue: 10/27/202110/28/2021

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l

Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: semi-static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

EL50 (Skeletonema costatum (marine diatom)): 38.7 mg/l

Exposure time: 72 h Test Type: static test Method: ISO 10253

GLP: yes

Zinc oxide:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1.55 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 0.136

mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

M-Factor (Acute aquatic tox-

icity)

1

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

(Daphnia magna (Water flea)): 0.04 mg/l

Exposure time: 21 d Test Type: semi-static test

Method: OECD Test Guideline 211

M-Factor (Chronic aquatic

toxicity)

1

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

GLP: yes

Silane, dichlorodimethyl-, reaction products with silica:



### **SumTech FMG-1**

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10,000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

### Persistence and degradability

**Product:** 

Biodegradability : Remarks: No data available

Physico-chemical removabil- :

ity

Remarks: No data available

Components:

**Mineral Oil:** 

Biodegradability : Primary biodegradation

Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 31 % Exposure time: 28 d

Method: OECD Test Guideline 301B

**Mineral Oil:** 

Biodegradability : Biodegradation: 31 %

Exposure time: 28 d

Dec-1-ene, homopolymer, hydrogenated:

Biodegradability : Primary biodegradation

Inoculum: activated sludge

Result: Not readily biodegradable. Method: OECD Test Guideline 301B

disodium sebacate:

Biodegradability : Result: Biodegradable

Biodegradation: 89 % Exposure time: 28 d

Zinc oxide:

Biodegradability : Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

Silane, dichlorodimethyl-, reaction products with silica:

Biodegradability : Result: Not readily biodegradable.



SumTech FMG-1

VersionRevision Date:Date of last issue: -Print Date:1.010/27/2021Date of first issue: 10/27/202110/28/2021

## **Bioaccumulative potential**

**Product:** 

Bioaccumulation : Remarks: This mixture contains no substance considered to

be persistent, bioaccumulating and toxic (PBT).

This mixture contains no substance considered to be very

persistent and very bioaccumulating (vPvB).

**Components:** 

Mineral Oil:

Partition coefficient: n-

octanol/water

Pow: > 6

Mineral Oil:

Partition coefficient: n-

octanol/water

log Pow: > 6

Dec-1-ene, homopolymer, hydrogenated:

Partition coefficient: n-

octanol/water

:  $\log Pow: > 6.5 (68 °F / 20 °C)$ 

disodium sebacate:

Partition coefficient: n-

log Pow: -4.9 (68 °F / 20 °C)

octanol/water

pH: 7.8

Silane, dichlorodimethyl-, reaction products with silica:

Partition coefficient: n-

octanol/water

: Remarks: Not applicable

Mobility in soil

**Product:** 

Mobility : Remarks: No data available

Distribution among environ-

mental compartments

Remarks: No data available

Other adverse effects

**Product:** 

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: 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).



SumTech FMG-1

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

Additional ecological infor-

mation

Harmful to aquatic life with long lasting effects.

**Components:** 

Mineral Oil:

Results of PBT and vPvB

assessment

Non-classified PBT substance Non-classified vPvB substance

Mineral Oil:

Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT).

Dec-1-ene, homopolymer, hydrogenated:

Results of PBT and vPvB

assessment

Non-classified PBT substance Non-classified vPvB substance

Zinc oxide:

Results of PBT and vPvB

assessment

Remarks: Not applicable

Silane, dichlorodimethyl-, reaction products with silica:

Results of PBT and vPvB

assessment

Non-classified vPvB substance Non-classified PBT substance

### **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 as

the unused product.

Dispose of waste product or used containers according to

local regulations.

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

International Regulations

**UNRTDG** 



### SumTech FMG-1

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

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 Hazards

SARA 313 : The following components are subject to reporting levels es-

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





### SumTech FMG-1

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

Zinc oxide 1314-13-2 >= 1 - < 5 %

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

## **US State Regulations**

### **Massachusetts Right To Know**

Mineral Oil Proprietary
Zinc oxide 1314-13-2

## Pennsylvania Right To Know

Mineral Oil Proprietary
Mineral Oil Proprietary
(benzoato-O,O')hydroxy(octadecanoato-O,O')aluminium
Dec-1-ene, homopolymer, hydrogenated
Zinc oxide

Proprietary
68037-01-4
1314-13-2

### **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

### **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

### **Washington Chemicals of High Concern**

Product does not contain any listed chemicals

### **New York City Hazardous Substances**

Mineral Oil Proprietary
Zinc oxide 1314-13-2
2,6-Di-tert-butyl-p-cresol 128-37-0

### 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**

Mineral Oil Proprietary Zinc oxide 1314-13-2

## **California Permissible Exposure Limits for Chemical Contaminants**

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.



### SumTech FMG-1

Version Revision Date: Date of last issue: - Print Date: 1.0 10/27/2021 Date of first issue: 10/27/2021 10/28/2021

#### **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;



### SumTech FMG-1

VersionRevision Date:Date of last issue: -Print Date:1.010/27/2021Date of first issue: 10/27/202110/28/2021

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

Revision Date : 10/27/2021

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