

SumTech FMG-1

VersionRevision Date:Date of last issue: -Print Date:1.02021-10-27Date of first issue: 2021-10-272021-10-28

SECTION 1. IDENTIFICATION

Product name : SumTech FMG-1

Article-No. : 320443

Other means of identification : No data available

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

responsible for the SDS

mcm@us.kluber.com

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 Hazardous Products Regulations

Not a hazardous substance or mixture.

GHS label elements

This chemical is not considered hazardous by the Canadian Hazardous Products Regulations (WHMIS 2015).

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture



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Chemical nature : Mineral oil.

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		

See Section 15 for HMIRA information.

Actual concentration or concentration range 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

No information available.

None known.





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delayed

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.



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Wash hands and face before breaks and immediately after

handling the product.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Mineral Oil	Proprietary	TWA (Mist)	5 mg/m3	CA AB OEL
		STEL (Mist)	10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
Mineral Oil	Proprietary	TWA (Mist)	5 mg/m3	CA AB OEL
		STEL (Mist)	10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
(benzoato- O,O')hydroxy(octadecanoato- O,O')aluminium	54326-11-3	TWA	10 mg/m3	CA AB OEL
		TWA	10 mg/m3	CA BC OEL
		TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH



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		TWA (Respirable particulate matter)	3 mg/m3	ACGIH
Zinc oxide	1314-13-2	TWA (Respirable)	2 mg/m3	CA AB OEL
		STEL (Respirable)	10 mg/m3	CA AB OEL
		TWA (Respirable)	2 mg/m3	CA BC OEL
		STEL (Respirable)	10 mg/m3	CA BC OEL
		TWAEV (Fumes)	5 mg/m3	CA QC OEL
		TWAEV (to- tal dust)	10 mg/m3	CA QC OEL
		STEV (Fumes)	10 mg/m3	CA QC OEL
		TWA (Respirable particulate matter)	2 mg/m3	ACGIH
		STEL (Res- pirable par- ticulate mat- ter)	10 mg/m3	ACGIH

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-





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cific work-place.

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

handling.

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 (20 °C)

Relative vapour density : No data available

Relative density : 0.88 (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 : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

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.



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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

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 (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



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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

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



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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

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



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GLP : yes

Mineral Oil:

Species : Rabbit

Result : No eye irritation
Assessment : No eye irritation

Method : OECD Test Guideline 405

GLP : yes

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



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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.

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-



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> tation assay) Result: negative

GLP: yes

Germ cell mutagenicity -

Assessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Mineral Oil:

Germ cell mutagenicity -

Assessment

Tests on bacterial or mammalian cell cultures did not show

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.

a brand of **TREUDENBERG**



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Dec-1-ene, homopolymer, hydrogenated:

Carcinogenicity - Assess-

ment

: Not classifiable as a human carcinogen.

Zinc oxide:

Carcinogenicity - Assess-

ment

Not classifiable as a human carcinogen.

Silane, dichlorodimethyl-, reaction products with silica:

Carcinogenicity - Assess-

ment

: No evidence of carcinogenicity in animal studies.

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-

sessment

: - Fertility -





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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.



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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



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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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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:



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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:



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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.



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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

: $\log Pow: > 6.5 (20 °C)$

disodium sebacate:

Partition coefficient: n- : log Pow: -4.9 (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:

Additional ecological infor-

mation

: Harmful to aquatic life with long lasting effects.

Components:

Mineral Oil:



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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

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good



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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

TDG

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

NPRI Components : Zinc oxide2,6-Di-tert-butyl-p-cresol

Canadian lists

No substances are subject to a Significant New Activity Notification.

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table

2: OEL)

CA BC OEL : Canada, British Columbia OEL

CA QC OEL : Québec. Regulation respecting occupational health and safe-

ty, Schedule 1, Part 1: Permissible exposure values for air-

borne contaminants

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

CA AB OEL / TWA : 8-hour Occupational exposure limit
CA AB OEL / STEL : 15-minute occupational exposure limit

CA BC OEL / TWA : 8-hour time weighted average CA BC OEL / STEL : short-term exposure limit

CA QC OEL / TWAEV : Time-weighted average exposure value

CA QC OEL / STEV : Short-term exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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 Or-



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ganisation 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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