

## SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

#### **SECTION 1. IDENTIFICATION**

Product name : SumTech SG 460

Article-No. : 320413

## Manufacturer or supplier's details

Company name of supplier : Klüber Lubrication NA LP

9010 County Road 2120 Tyler, Texas 75707

USA

Phone: +1 903 534-8021 Fax: +1 903 581-4376

32 Industrial Drive Londonderry, NH 03053

USA

Phone: +1 603 647-4104 Fax: +1 603 647-4106

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 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Eye irritation : Category 2A

Reproductive toxicity : Category 2

**GHS** label elements

Hazard pictograms





Signal word : Warning



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

Hazard statements : Causes serious eye irritation.

Suspected of damaging fertility.

Precautionary statements : Prevention:

Obtain special instructions before use.

Wear protective gloves/ protective clothing/ eye protection/ face

protection.

Response:

IF exposed or concerned: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

Other hazards

None known.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Synthetic hydrocarbon oil

special lithium soap

## Components

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

Actual concentration is withheld as a trade secret

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

If inhaled : Obtain medical attention.



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

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 : Take off all contaminated clothing immediately.

Wash off immediately with soap and plenty of water.

Get medical attention immediately if irritation develops and

persists.

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. Seek medical advice.

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.

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

Nitrogen oxides (NOx)

Sulphur oxides

Oxides of phosphorus

Metal oxides

Further information : Standard procedure for chemical fires.

Special protective equipment :

for firefighters

·

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

Exposure to decomposition products may be a hazard to

health.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec- :

tive equipment and emergency procedures

Evacuate personnel to safe areas.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release

(dust).

Do not breathe vapours, aerosols.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Try to prevent the material from entering drains or water

courses.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.

## **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Wash hands and face before breaks and immediately after

handling the product.

Do not get in eyes or mouth or on skin.

Do not get on skin or clothing.

Do not ingest. Do not repack.

These safety instructions also apply to empty packaging which

may still contain product residues. Keep container closed when not in use.

Conditions for safe storage : Store in original container.

Keep container closed when not in use. Keep in a dry, cool and well-ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Store in accordance with the particular national regulations.

Keep in properly labelled containers.

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

Components with workplace control parameters





## SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

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

**Engineering measures** : Handle only in a place equipped with local exhaust (or other

appropriate exhaust).

## Personal protective equipment

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

Filter type : Filter type P

Hand protection

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

Remarks : Wear protective gloves. The break through time depends

amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each

case.

Eye protection : Safety glasses with side-shields

Skin and body protection : Choose body protection in relation to its type, to the concen-

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

cific work-place.

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

to the concentration and amount of the dangerous substance

at the specific workplace.

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

handling.



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

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

Appearance : paste

Colour : beige

Odour : characteristic

Odour Threshold : No data available

pH : Not applicable

substance/mixture is non-soluble (in water)

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : Combustible Solids

Self-ignition : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : < 0.001 hPa (68 °F / 20 °C)

Relative vapour density : No data available

Relative density :  $0.87 (68 \,^{\circ}\text{F} / 20 \,^{\circ}\text{C})$ 

Reference substance: Water The value is calculated

Bulk density : No data available

Solubility(ies)

Water solubility : insoluble



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

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 : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

Components:

lithium 12-hydroxystearate:

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

Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 3,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

dilithium azelate:

Acute oral toxicity : LD50 (Rat): > 300 mg/kg

Method: OECD Test Guideline 420

GLP: yes

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

Assessment: The substance or mixture has no acute dermal

toxicity

Distillates (petroleum), hydrotreated light paraffinic:

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

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

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

Method: OECD Test Guideline 402

GLP: yes

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

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

Method: OECD Test Guideline 401

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

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Hydrocarbon waxes (petroleum), oxidized, Me esters:

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

Assessment: The substance or mixture has no acute oral tox-

icity



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

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

Acute oral toxicity : LD50 (Rat, male): 3,100 mg/kg

Method: OECD Test Guideline 401

GLP: no

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

Method: OECD Test Guideline 402

GLP: no

Skin corrosion/irritation

**Product:** 

Remarks : This information is not available.

**Components:** 

lithium 12-hydroxystearate:

Assessment : No skin irritation

Method : OECD Test Guideline 439

Result : No skin irritation

dilithium azelate:

Assessment : No skin irritation Result : No skin irritation

Distillates (petroleum), hydrotreated light paraffinic:

Species : Rabbit

Assessment : No skin irritation Result : No skin irritation

GLP : yes

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

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

Hydrocarbon waxes (petroleum), oxidized, Me esters:

Species : human skin
Assessment : No skin irritation
Result : No skin irritation

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

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes



## SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

## Serious eye damage/eye irritation

**Product:** 

Remarks : Irritating to eyes.

## **Components:**

## lithium 12-hydroxystearate:

Species : Rabbit

Result : No eye irritation
Assessment : No eye irritation

Method : OECD Test Guideline 405

#### dilithium azelate:

Species : Rabbit

Result : No eye irritation
Assessment : No eye irritation

## Distillates (petroleum), hydrotreated light paraffinic:

Species : Rabbit

Result : No eye irritation

Exposure time : 48 h

Assessment : No eye irritation

Method : OECD Test Guideline 405

GLP : yes

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

Species : Rabbit

Result : No eye irritation
Assessment : No eye irritation

Method : OECD Test Guideline 405

## Hydrocarbon waxes (petroleum), oxidized, Me esters:

Species : Human

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

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

Species : Rabbit

Result : Risk of serious damage to eyes.
Assessment : Risk of serious damage to eyes.
Method : OECD Test Guideline 405

GLP : yes



#### SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

## Respiratory or skin sensitisation

**Product:** 

Remarks : This information is not available.

**Components:** 

lithium 12-hydroxystearate:

Exposure routes : Dermal Species : Mouse

Method : OECD Test Guideline 429

Result : negative

dilithium azelate:

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

Distillates (petroleum), hydrotreated light paraffinic:

Test Type : Buehler Test Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals.

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

GLP : no

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

Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals.

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

Hydrocarbon waxes (petroleum), oxidized, Me esters:

Test Type : Buehler Test Species : Guinea pig

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

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

Test Type : Maximisation Test

Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals.

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

GLP : yes



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

## Germ cell mutagenicity

**Product:** 

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

## **Components:**

Distillates (petroleum), hydrotreated light paraffinic:

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

Assessment mutagenic effects.

Carcinogenicity

**Product:** 

Remarks : No data available

**Components:** 

Distillates (petroleum), hydrotreated light paraffinic:

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:** 

Distillates (petroleum), hydrotreated light paraffinic:

Reproductive toxicity - As- : - Fertility -

sessment No toxicity to I

No toxicity to reproduction - Teratogenicity -

No effects on or via lactation



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

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

Reproductive toxicity - As-

sessment

: - Fertility -

Some evidence of adverse effects on sexual function and

fertility, based on animal experiments.

STOT - single exposure

**Components:** 

dilithium azelate:

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

organ toxicant, single exposure.

STOT - repeated exposure

**Components:** 

dilithium azelate:

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.

**Aspiration toxicity** 

**Product:** 

This information is not available.

**Components:** 

dilithium azelate:

No aspiration toxicity classification

Distillates (petroleum), hydrotreated light paraffinic:

May be fatal if swallowed and enters airways.

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

No aspiration toxicity classification

**Further information** 

**Product:** 

Remarks : Information given is based on data on the components and



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

the toxicology of similar products.

## **Components:**

Hydrocarbon waxes (petroleum), oxidized, Me esters:

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: No data available

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:** 

lithium 12-hydroxystearate:

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

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

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

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): > 160

mq/

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 160



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

dilithium azelate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

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

Exposure time: 48 h

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

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 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 magna (Water flea)): 51 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.4 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)): 75 mg/l

Exposure time: 48 h Test Type: Immobilization

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): 240 mg/l

Exposure time: 72 h

Test Type: Growth inhibition



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

Method: OECD Test Guideline 201

GLP: yes

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): > 0.8 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

GLP: yes

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to microorganisms : EC50 (Pseudomonas putida): 380 mg/l

Exposure time: 16 h Test Type: static test

GLP: yes

## Persistence and degradability

**Product:** 

Biodegradability : Remarks: No data available

Physico-chemical removabil- :

ity

Remarks: No data available

## **Components:**

lithium 12-hydroxystearate:

Biodegradability : Primary biodegradation

Inoculum: activated sludge Result: rapidly biodegradable Biodegradation: 74.7 % Exposure time: 28 d

Method: OECD Test Guideline 301C

## Distillates (petroleum), hydrotreated light paraffinic:

Biodegradability : Result: not rapidly degradable

Biodegradation: 31 % Exposure time: 28 d

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

Biodegradability : aerobic

Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 1 % Exposure time: 28 d



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

Method: OECD Test Guideline 301B

GLP: yes

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

Biodegradability : Result: Not rapidly biodegradable

Biodegradation: < 5 % Exposure time: 27 d

Method: OECD Test Guideline 301D

GLP: no

**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:** 

lithium 12-hydroxystearate:

Partition coefficient: n-

octanol/water

log Pow: 2.6

dilithium azelate:

Bioaccumulation : Bioconcentration factor (BCF): 3.0

Partition coefficient: n-

octanol/water

log Pow: -3.56

Distillates (petroleum), hydrotreated light paraffinic:

Partition coefficient: n- : Pow: > 6

octanol/water Remarks: Information given is based on data obtained from

similar substances.

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

Partition coefficient: n-

octanol/water

: log Pow: > 5

Hydrocarbon waxes (petroleum), oxidized, Me esters:

Bioaccumulation : Remarks: This substance is not considered to be persistent,

bioaccumulating and toxic (PBT).

This substance is not considered to be very persistent and



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

very bioaccumulating (vPvB).

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

Partition coefficient: n- : log Pow: 3.59 (72 °F / 22 °C)

octanol/water pH: 5

Method: OECD Test Guideline 107

GLP: yes

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).

Additional ecological infor-

mation

No information on ecology is available.

**Components:** 

Distillates (petroleum), hydrotreated light paraffinic:

Results of PBT and vPvB

assessment

Non-classified PBT substance Non-classified vPvB substance

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

Results of PBT and vPvB

assessment

Non-classified PBT substance Non-classified vPvB 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



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

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

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

Not applicable for product as supplied.

## **National Regulations**

#### **49 CFR**

Not regulated as a dangerous good

#### **SECTION 15. REGULATORY INFORMATION**

## **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Reproductive toxicity

Serious eye damage or eye irritation

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

tablished by SARA Title III, Section 313:

zinc bis[0,0-4259-15-8] >= 1 - < 5 %

bis(2-ethylhexyl)] bis(dithiophosph

ate)



#### SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

#### Clean Air Act

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

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

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

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

Butene, polymers 9003-29-6 >= 5 - < 10 %

#### **Clean Water Act**

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

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

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

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

bis(dithiophosphate)

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

#### **US State Regulations**

## Massachusetts Right To Know

Benzenamine, N-phenyl-, reaction products with 2,4,4- 68411-46-1 trimethylpentene

## Pennsylvania Right To Know

Dec-1-ene, homopolymer, hydrogenated	68037-01-4
lithium 12-hydroxystearate	7620-77-1
Butene, polymers	9003-29-6
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8

#### Maine Chemicals of High Concern

Benzenamine, N-phenyl-, reaction products with 2,4,4trimethylpentene 68411-46-1

## **Vermont Chemicals of High Concern**

Benzenamine, N-phenyl-, reaction products with 2,4,4- 68411-46-1 trimethylpentene

## **Washington Chemicals of High Concern**

Benzenamine, N-phenyl-, reaction products with 2,4,4- 68411-46-1 trimethylpentene

## **New York City Hazardous Substances**

Distillates (petroleum), hydrotreated light paraffinic 64742-55-8 zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8

#### 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.





SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

California List of Hazardous Substances

Distillates (petroleum), hydrotreated light paraffinic 64742-55-8 zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8

**California Permissible Exposure Limits for Chemical Contaminants** 

Distillates (petroleum), hydrotreated light paraffinic 64742-55-8

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

OSHA P0 / TWA : 8-hour time weighted average OSHA Z-1 / TWA : 8-hour time weighted average

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 Substanc-



SumTech SG 460

 Version
 Revision Date:
 Date of last issue: 03/09/2022
 Print Date:

 2.0
 08/02/2022
 Date of first issue: 03/09/2022
 11/21/2023

es; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 08/02/2022

This safety data sheet applies only to products as originally packed and labelled. The information contained therein may not be reproduced or modified without our express written permission. Any forwarding of this document is only permitted to the extent required by law. Any further, in particular public, dissemination of the safety data sheet (e.g. as a document for download from the Internet) is not permitted without our express written consent. We provide our customers with amended safety data sheets as prescribed by law. The customer is responsible for passing on safety data sheets and any amendments contained therein to its own customers, employees and other users of the product. We provide no guarantee that safety data sheets received by users from third parties are up-to-date. All information and instructions in this safety data sheet have been compiled to the best of our knowledge and are based on the information available to us on the day of publication. The information provided is intended to describe the product in relation to the required safety measures; it is neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and does not justify any contractual legal relationship. The existence of a safety data sheet for a particular jurisdiction does not necessarily mean that import or use within that jurisdiction is legally permitted. If you have any questions, please contact your responsible sales contact or authorized trading partner.