

## **BESTOLIFE STORAGE COMPOUND**

Version Revision Date: MSDS Number: Date of last issue: -

1.0 04.06.2015 150402-00001 Date of first issue: 04.06.2015

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BESTOLIFE STORAGE COMPOUND

Product code : 00000000000640235

SDS-Identcode : 437G

Manufacturer or supplier's details

Company : Bestolife Corporation

Address : 2777 N. Stemmons Frwy Ste 1800

Dallas TX 75207,

Telephone : 855-243-9164/972-865-8961

Emergency telephone number : CHEMTREC: 800-101-2201, International: +1-703-527-3887

Telefax : 214-631-3047

Recommended use of the chemical and restrictions on use

Recommended use : Industrial use

Thread Compound (Pipe Dope) and Jacking grease for use in

Offshore industries

Mining, (without offshore industries)

Restrictions on use : Do not use on oxygen lines or in oxygen enriched atmos-

pheres.

#### 2. HAZARDS IDENTIFICATION

## **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS Label element**

Not a hazardous substance or mixture.

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture



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#### **Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
Distillates (petroleum), hydrotreated heavy naph-	64742-52-5	>= 50 - < 70
thenic		
Limestone	1317-65-3	>= 10 - < 20
Distillates (petroleum), hydrotreated light naph-	64742-53-6	>= 1 - < 10
thenic		
12-Hydroxy lithium stearate	7620-77-1	>= 1 - < 10
Calcium bis(dinonylnaphthalenesulphonate)	57855-77-3	>= 1 - < 10
Titanium dioxide	13463-67-7	>= 1 - < 10
Calcium petroleum sulfonates	61789-86-4	>= 0.1 - < 1

#### 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : In case of contact, immediately flush skin with plenty of water.

Remove contaminated clothing and shoes.

Get medical attention. Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact : Flush eyes with water as a precaution.

Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.

Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and

delayed

: None known.

Protection of first-aiders : First Aid responders should pay attention to self-protection,

and use the recommended personal protective equipment

when the potential for exposure exists.

Notes to physician : Treat symptomatically and supportively.

## **5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical



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Unsuitable extinguishing

media

: None known.

Specific hazards during fire-

fighting

: Exposure to combustion products may be a hazard to health.

Hazardous combustion prod-

ucts

: Carbon oxides Metal oxides

Sulphur oxides

Specific extinguishing meth-

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

Special protective equipment

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Use personal protective equipment. tive equipment and emer-

gency procedures

Follow safe handling advice and personal protective equip-

ment recommendations.

**Environmental precautions** Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up Sweep up or vacuum up spillage and collect in suitable con-

tainer for disposal.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

### 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Do not get on skin or clothing. Advice on safe handling

Do not swallow.

Avoid contact with eyes.



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Handle in accordance with good industrial hygiene and safety

practice.

Take care to prevent spills, waste and minimize release to the

environment.

Conditions for safe storage : Keep in properly labelled containers.

Store in accordance with the particular national regulations.

Materials to avoid : Do not store with the following product types:

Strong oxidizing agents

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	PEL (long term) (Mist)	5 mg/m3	SG OEL
		PEL (short term) (Mist)	10 mg/m3	SG OEL
		TWA (Inhal- able fraction)	5 mg/m3	ACGIH
Limestone	1317-65-3	PEL (long term)	10 mg/m3	SG OEL
Distillates (petroleum), hy- drotreated light naphthenic	64742-53-6	PEL (long term) (Mist)	5 mg/m3	SG OEL
		PEL (short term) (Mist)	10 mg/m3	SG OEL
		TWA (Inhal- able fraction)	5 mg/m3	ACGIH
12-Hydroxy lithium stearate	7620-77-1	PEL (long term)	10 mg/m3	SG OEL
		TWA	10 mg/m3	ACGIH
Titanium dioxide	13463-67-7	PEL (long term)	10 mg/m3	SG OEL
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH

**Engineering measures** : Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Combined particulates and organic vapour type

Hand protection

Material : Impervious gloves



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Remarks : Choose gloves to protect hands against chemicals depending

on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the

end of workday.

Eye protection : Wear the following personal protective equipment:

Safety goggles

Skin and body protection : Skin should be washed after contact.

Hygiene measures : Ensure that eye flushing systems and safety showers are

located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Viscous semi-solid

Colour : off-white

Odour : Petroleum

Odour Threshold : No data available

pH : Not applicable (not an aqueous solution)

: No data available

: No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : 1.0



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Density : No data available

Solubility(ies)

Water solubility : negligible

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 : No data available

Flow time : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : No data available

## 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

: Can react with strong oxidizing agents.

Conditions to avoid : None known.

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

: No hazardous decomposition products are known.

### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of :

exposure

Skin contact Ingestion Eye contact

### **Acute toxicity**

Not classified based on available information.

### **Components:**



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Distillates (petroleum), hydrotreated heavy naphthenic:

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

Method: OECD Test Guideline 401

Remarks: Based on data from similar materials

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

Remarks: Based on data from similar materials

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

Method: OECD Test Guideline 402

Remarks: Based on data from similar materials

Limestone:

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

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

icity

Distillates (petroleum), hydrotreated light naphthenic:

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

Method: OECD Test Guideline 401

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): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

12-Hydroxy lithium stearate:

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

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

icity

Calcium bis(dinonylnaphthalenesulphonate):

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

Acute inhalation toxicity : LC50 (Rat): > 18 mg/l

Exposure time: 1 h

Test atmosphere: dust/mist

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

Titanium dioxide:

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



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Acute inhalation toxicity : LC50 (Rat): > 6.82 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Calcium petroleum sulfonates:

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

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 1.9 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 4,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

#### Skin corrosion/irritation

Not classified based on available information.

## Components:

### Distillates (petroleum), hydrotreated heavy naphthenic:

Species: Rabbit

Result: No skin irritation

Remarks: Based on data from similar materials

### Distillates (petroleum), hydrotreated light naphthenic:

Species: Rabbit

Result: No skin irritation

### 12-Hydroxy lithium stearate:

Species: Rabbit

Result: No skin irritation

Remarks: Based on data from similar materials

## Calcium bis(dinonylnaphthalenesulphonate):

Species: Rabbit Result: Skin irritation

# Titanium dioxide:

Species: Rabbit

Result: No skin irritation

#### Calcium petroleum sulfonates:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Remarks: Based on data from similar materials



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#### Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

### Distillates (petroleum), hydrotreated heavy naphthenic:

Species: Rabbit Result: No eye irritation

Remarks: Based on data from similar materials

### Distillates (petroleum), hydrotreated light naphthenic:

Species: Rabbit

Result: No eye irritation

### 12-Hydroxy lithium stearate:

Species: Rabbit

Result: No eye irritation

Remarks: Based on data from similar materials

### Calcium bis(dinonylnaphthalenesulphonate):

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days Remarks: Based on data from similar materials

#### Titanium dioxide:

Species: Rabbit

Result: No eye irritation

#### Calcium petroleum sulfonates:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Remarks: Based on data from similar materials

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

#### Components:

## Distillates (petroleum), hydrotreated heavy naphthenic:

Test Type: Buehler Test Exposure routes: Skin contact

Species: Guinea pig Result: negative

Remarks: Based on data from similar materials

#### Distillates (petroleum), hydrotreated light naphthenic:

Test Type: Buehler Test Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

## 12-Hydroxy lithium stearate:

Test Type: Local lymph node assay (LLNA)



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Exposure routes: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: negative

Calcium bis(dinonylnaphthalenesulphonate):

Test Type: Human repeat insult patch test (HRIPT)

Exposure routes: Skin contact

Result: negative

Titanium dioxide:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse Result: negative

Calcium petroleum sulfonates:

Test Type: Buehler Test Exposure routes: Skin contact

Species: Guinea pig Result: positive

Assessment: Probability or evidence of low to moderate skin sensitisation rate in humans

#### Germ cell mutagenicity

Not classified based on available information.

Components:

Distillates (petroleum), hydrotreated heavy naphthenic:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection Method: OECD Test Guideline 474

Result: negative

Remarks: Based on data from similar materials

Distillates (petroleum), hydrotreated light naphthenic:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 476

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection Method: OECD Test Guideline 474

Result: negative

Calcium bis(dinonylnaphthalenesulphonate):



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Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: negative

Remarks: Based on data from similar materials

Titanium dioxide:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse Result: negative

Calcium petroleum sulfonates:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Ingestion

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Distillates (petroleum), hydrotreated heavy naphthenic:

Species: Mouse

Application Route: Skin contact Exposure time: 78 weeks

Method: OECD Test Guideline 451

Result: negative

Distillates (petroleum), hydrotreated light naphthenic:

Species: Mouse

Application Route: Skin contact Exposure time: 78 weeks

Result: negative

Titanium dioxide:

Species: Rat

Application Route: inhalation (dust/mist/fume)

Exposure time: 2 Years

Method: OECD Test Guideline 453

Result: positive

Remarks: The mechanism or mode of action may not be relevant in humans.

animals.

The substance is inextricably bound in the product and therefore does not contribute to a dust

inhalation hazard.

Carcinogenicity - Assess-

: Limited evidence of carcinogenicity in inhalation studies with

ment

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#### Reproductive toxicity

Not classified based on available information.

#### Components:

### Distillates (petroleum), hydrotreated light naphthenic:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening

test

Species: Rat

Application Route: Ingestion

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Skin contact

Result: negative

#### Calcium bis(dinonylnaphthalenesulphonate):

Effects on fertility : Test Type: Combined repeated dose toxicity study with the

reproduction/developmental toxicity screening test

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 422

Result: negative

Remarks: Based on data from similar materials

Effects on foetal develop-

ment

: Test Type: Combined repeated dose toxicity study with the

reproduction/developmental toxicity screening test

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 422

Result: negative

Remarks: Based on data from similar materials

### Calcium petroleum sulfonates:

Effects on fertility : Test Type: One-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 415

Result: negative

Remarks: Based on data from similar materials

### STOT - single exposure

Not classified based on available information.

## STOT - repeated exposure

Not classified based on available information.

#### **Components:**

## 12-Hydroxy lithium stearate:

**Exposure routes: Ingestion** 

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg

bw or less.



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#### Repeated dose toxicity

### **Components:**

Distillates (petroleum), hydrotreated heavy naphthenic:

Species: Rat NOAEL: > 0.98 mg/l

Application Route: inhalation (dust/mist/fume)

Exposure time: 28 d

Remarks: Based on data from similar materials

## Distillates (petroleum), hydrotreated light naphthenic:

Species: Rabbit NOAEL: 1,000 mg/kg

Application Route: Skin contact

Exposure time: 4 w

Method: OECD Test Guideline 410

#### 12-Hydroxy lithium stearate:

Species: Rat

NOAEL: > 88 mg/kg Application Route: Ingestion

Exposure time: 90 d

### Calcium bis(dinonylnaphthalenesulphonate):

Species: Rat NOAEL: 95 mg/kg LOAEL: 298 mg/kg

Application Route: Ingestion

Exposure time: 28 d

Method: OECD Test Guideline 422

Remarks: Based on data from similar materials

### Titanium dioxide:

Species: Rat

NOAEL: 24,000 mg/kg Application Route: Ingestion

Exposure time: 28 d

Species: Rat NOAEL: 10 mg/m3

Application Route: inhalation (dust/mist/fume)

Exposure time: 2 y

Remarks: The substance is inextricably bound in the product and therefore does not contribute

to a dust inhalation hazard.

## Calcium petroleum sulfonates:

Species: Rat > 1000 mg/kg

Application Route: Skin contact

Exposure time: 28 d

Method: OECD Test Guideline 410

Remarks: Based on data from similar materials



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#### **Aspiration toxicity**

Not classified based on available information.

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

## Components:

Distillates (petroleum), hydrotreated heavy naphthenic:

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h

Remarks: Based on data from similar materials

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 10 mg/l

Exposure time: 21 d

Remarks: Based on data from similar materials

Toxicity to bacteria : NOEC: > 1.93 mg/l

Exposure time: 10 min

Remarks: Based on data from similar materials

Limestone:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 10,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

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

Exposure time: 48 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 200 mg/l

Exposure time: 72 h

Distillates (petroleum), hydrotreated light naphthenic:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h

Test substance: Water Accommodated Fraction

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h

Test substance: Water Accommodated Fraction

Toxicity to algae NOELR (Pseudokirchneriella subcapitata (green algae)): >=

100 mg/l



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Exposure time: 72 h

Test substance: Water Accommodated Fraction

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 10 mg/l

Exposure time: 21 d

Toxicity to bacteria : NOEC (Photobacterium phosphoreum): > 2.17 mg/l

Exposure time: 4 d

Calcium bis(dinonylnaphthalenesulphonate):

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 0.28 mg/l

Exposure time: 96 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 203

Remarks: No toxicity at the limit of solubility Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 0.18 mg/l

Exposure time: 48 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to bacteria : EC50: 560 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Remarks: Based on data from similar materials

Titanium dioxide:

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

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

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

Exposure time: 48 h

Toxicity to algae : EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l

Exposure time: 72 h

Toxicity to bacteria : EC50: > 1,000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Calcium petroleum sulfonates:

Toxicity to fish : LL50 (Cyprinodon variegatus (sheepshead minnow)): >

10,000 mg/l

Exposure time: 96 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

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

Exposure time: 48 h

Test substance: Water Accommodated Fraction



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Remarks: Based on data from similar materials

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): >

1,000 mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): 1,000

mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials

Toxicity to bacteria : EC50: > 10,000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

### Persistence and degradability

### **Components:**

Distillates (petroleum), hydrotreated heavy naphthenic:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 2 - 4 % Exposure time: 28 d

Method: OECD Test Guideline 301B

Distillates (petroleum), hydrotreated light naphthenic:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 2 - 8 % Exposure time: 28 d

Method: OECD Test Guideline 301B

12-Hydroxy lithium stearate:

Biodegradability : Result: Readily biodegradable

Biodegradation: 78 % Exposure time: 28 d

Method: OECD Test Guideline 301C

Calcium bis(dinonylnaphthalenesulphonate):

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 17 % Exposure time: 28 d

Method: OECD Test Guideline 301B

Remarks: Based on data from similar materials

Calcium petroleum sulfonates:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 8.6 % Exposure time: 28 d

Method: OECD Test Guideline 301F



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#### Bioaccumulative potential

#### **Components:**

Calcium petroleum sulfonates:

Partition coefficient: n-

: log Pow: > 6.65

octanol/water

## Mobility in soil

No data available

#### Other adverse effects

No data available

#### 13. DISPOSAL CONSIDERATIONS

**Disposal methods** 

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

#### 14. TRANSPORT INFORMATION

#### International Regulation

#### **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.

#### 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazard-

: Not applicable

ous Substances) Regulations

The components of this product are reported in the following inventories:



## BESTOLIFE STORAGE COMPOUND

Version Revision Date: MSDS Number: Date of last issue: -

1.0 04.06.2015 150402-00001 Date of first issue: 04.06.2015

DSL : All components of this product are on the Canadian DSL

TSCA : All chemical substances in this material are included on or

exempted from listing on the TSCA Inventory of Chemical

Substances.

#### **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

#### 16. OTHER INFORMATION

#### **Further information**

Sources of key data used to compile the Safety Data

Sheet

: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : dd.mm.yyyy

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

SG OEL : Singapore. Workplace Safety and Health Act - First Schedule

Permissible Exposure Limits of Toxic Substances

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

SG OEL / PEL (long term) : Permissible Exposure Level (PEL) Long Term SG OEL / PEL (short term) : Permissible Exposure Level (PEL) Short Term

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

SG / EN