



**BESTOLIFE STORAGE COMPOUND**

Version 4.2      Revision Date: 12/08/2015      SDS Number: 117366-00006      Date of last issue: 09/24/2015  
 Date of first issue: 05/18/2015

Precautionary Statements : **Prevention:**  
 P264 Wash skin thoroughly after handling.  
 P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.

**Other hazards**

None known.

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

Substance / Mixture : Mixture

**Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	>= 50 - < 70
Limestone	1317-65-3	>= 10 - < 20
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	>= 5 - < 10
Calcium bis(dinonylnaphthalenesulphonate)	57855-77-3	>= 5 - < 10
12-Hydroxy lithium stearate	7620-77-1	>= 5 - < 10
Lithium Hydroxide Monohydrate	1310-66-3	>= 1 - < 5
Stearic acid	57-11-4	>= 1 - < 5
Titanium dioxide	13463-67-7	>= 1 - < 5

**SECTION 4. FIRST AID MEASURES**

General advice : In the case of accident or if you feel unwell, seek medical advice 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 for at least 15 minutes while removing contaminated clothing and shoes.  
 Get medical attention.  
 Wash clothing before reuse.  
 Thoroughly clean shoes before reuse.

**BESTOLIFE STORAGE COMPOUND**

Version	Revision Date:	SDS Number:	Date of last issue: 09/24/2015
4.2	12/08/2015	117366-00006	Date of first issue: 05/18/2015

---

- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Get medical attention.
- 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 : Causes skin irritation.  
Causes serious eye irritation.
- 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.
- 

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides  
Metal oxides  
Sulfur oxides
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances 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 fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.
- 

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Follow safe handling advice and personal protective equipment recommendations.

**BESTOLIFE STORAGE COMPOUND**

Version            Revision Date:            SDS Number:            Date of last issue: 09/24/2015  
4.2                    12/08/2015                117366-00006            Date of first issue: 05/18/2015

- 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 container 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 determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

**SECTION 7. HANDLING AND STORAGE**

- Technical measures                        : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Advice on safe handling                : Do not get on skin or clothing.  
Do not swallow.  
Do not get in eyes.  
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 labeled containers.  
Store in accordance with the particular national regulations.
- Materials to avoid                        : Do not store with the following product types:  
Strong oxidizing agents

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m <sup>3</sup>	ACGIH
		TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
Limestone	1317-65-3	TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Res-	5 mg/m <sup>3</sup>	NIOSH REL

**BESTOLIFE STORAGE COMPOUND**

Version 4.2      Revision Date: 12/08/2015      SDS Number: 117366-00006      Date of last issue: 09/24/2015  
 Date of first issue: 05/18/2015

		pirable)		
		TWA (total)	10 mg/m3	NIOSH REL
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
12-Hydroxy lithium stearate	7620-77-1	TWA	10 mg/m3	ACGIH
Lithium Hydroxide Monohydrate	1310-66-3	CEIL	1 mg/m3	US WEEL
Stearic acid	57-11-4	TWA	10 mg/m3	ACGIH
Titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH

**Hazardous components without workplace control parameters**

Ingredients	CAS-No.
Calcium bis(dinonylnaphthalenesulphonate)	57855-77-3

**Engineering measures** : Minimize workplace exposure concentrations. Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m3 - total dust, 5 mg/m3 - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m3 - respirable particles, 10 mg/m3 - inhalable particles.

**Personal protective equipment**

**Respiratory protection** : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**Hand protection**  
Material

: Impervious gloves

**Remarks**

: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough

**BESTOLIFE STORAGE COMPOUND**

Version	Revision Date:	SDS Number:	Date of last issue: 09/24/2015
4.2	12/08/2015	117366-00006	Date of first issue: 05/18/2015

---

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 : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
- 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.
- 

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : Viscous semi-solid
- Color : off-white
- Odor : Petroleum
- Odor Threshold : No data available
- pH : Not applicable (not an aqueous solution)
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : 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
- Vapor pressure : No data available
- Relative vapor density : No data available
- Relative density : 1.0
- Density : No data available

**BESTOLIFE STORAGE COMPOUND**

Version	Revision Date:	SDS Number:	Date of last issue: 09/24/2015
4.2	12/08/2015	117366-00006	Date of first issue: 05/18/2015

---

Solubility(ies)		
Water solubility	:	negligible
Partition coefficient: n-octanol/water	:	No data available
Autoignition 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

---

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Can react with strong oxidizing agents.
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

---

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Skin contact  
Ingestion  
Eye contact

**Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
---------------------	---	--

**BESTOLIFE STORAGE COMPOUND**

Version      Revision Date:      SDS Number:      Date of last issue: 09/24/2015  
4.2          12/08/2015          117366-00006      Date of first issue: 05/18/2015

---

**Ingredients:****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 inhalation 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 toxicity

**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 inhalation toxicity
- Acute dermal toxicity                : LD50 (Rabbit): > 2,000 mg/kg  
  Assessment: The substance or mixture has no acute dermal toxicity

**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

**12-Hydroxy lithium stearate:**

- Acute oral toxicity                   : LD50 (Rat): > 2,000 mg/kg  
  Assessment: The substance or mixture has no acute oral toxicity

**Lithium Hydroxide Monohydrate:**

- Acute oral toxicity                   : LD50 (Rat): 368 mg/kg  
  Remarks: Based on data from similar materials



**BESTOLIFE STORAGE COMPOUND**

Version      Revision Date:      SDS Number:      Date of last issue: 09/24/2015  
4.2          12/08/2015          117366-00006      Date of first issue: 05/18/2015

---

Acute inhalation toxicity      : LC50 (Rat): > 6.15 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity          : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

**Stearic acid:**

Acute oral toxicity            : LD50: > 2,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity      : LC50 (Rat): > 0.1621 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Remarks: Based on data from similar materials

Acute dermal toxicity          : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**Titanium dioxide:**

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

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 inhalation toxicity

**Skin corrosion/irritation**

Causes skin irritation.

**Ingredients:****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

**Calcium bis(dinonylnaphthalenesulphonate):**

Species: Rabbit

Result: Skin irritation

**12-Hydroxy lithium stearate:**

Species: Rabbit

Result: No skin irritation

**BESTOLIFE STORAGE COMPOUND**

Version	Revision Date:	SDS Number:	Date of last issue: 09/24/2015
4.2	12/08/2015	117366-00006	Date of first issue: 05/18/2015

---

Remarks: Based on data from similar materials

**Lithium Hydroxide Monohydrate:**

Result: Corrosive after 3 minutes to 1 hour of exposure

**Stearic acid:**

Species: Rabbit

Result: No skin irritation

**Titanium dioxide:**

Species: Rabbit

Result: No skin irritation

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Ingredients:****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

**Calcium bis(dinonylnaphthalenesulphonate):**

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Remarks: Based on data from similar materials

**12-Hydroxy lithium stearate:**

Species: Rabbit

Result: No eye irritation

Remarks: Based on data from similar materials

**Lithium Hydroxide Monohydrate:**

Result: Irreversible effects on the eye

Remarks: Based on skin corrosivity.

**Stearic acid:**

Species: Rabbit

Result: No eye irritation

**Titanium dioxide:**

Species: Rabbit

Result: No eye irritation

**Respiratory or skin sensitization**

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

**Ingredients:****Distillates (petroleum), hydrotreated heavy naphthenic:**



**BESTOLIFE STORAGE COMPOUND**

Version 4.2      Revision Date: 12/08/2015      SDS Number: 117366-00006      Date of last issue: 09/24/2015  
Date of first issue: 05/18/2015

---

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):**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative  
Remarks: Based on data from similar materials

**Lithium Hydroxide Monohydrate:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

**Stearic acid:**

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

**Carcinogenicity**

Not classified based on available information.

**Product:**

Carcinogenicity - Assessment : Petroleum distillates have been classified as not carcinogenic based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L).

**Ingredients:**

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



**BESTOLIFE STORAGE COMPOUND**

Version            Revision Date:            SDS Number:            Date of last issue: 09/24/2015  
4.2                12/08/2015              117366-00006            Date of first issue: 05/18/2015

---

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 fetal development : 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

**Lithium Hydroxide Monohydrate:**

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

Species: Rat

Application Route: Ingestion

Method: OECD Test Guideline 416

Result: negative

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rat

Application Route: Ingestion

Method: OECD Test Guideline 414

Result: negative

Remarks: Based on data from similar materials

**Stearic acid:**

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

Effects on fetal development : 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

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Ingredients:****12-Hydroxy lithium stearate:**

Routes of exposure: Ingestion

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

**BESTOLIFE STORAGE COMPOUND**

Version      Revision Date:      SDS Number:      Date of last issue: 09/24/2015  
4.2          12/08/2015          117366-00006      Date of first issue: 05/18/2015

---

**Repeated dose toxicity****Ingredients:****Distillates (petroleum), hydrotreated heavy naphthenic:**

Species: Rat  
NOAEL: > 0.98 mg/l  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 28 Days  
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 Weeks  
Method: OECD Test Guideline 410

**Calcium bis(dinonylnaphthalenesulphonate):**

Species: Rat  
NOAEL: 95 mg/kg  
LOAEL: 298 mg/kg  
Application Route: Ingestion  
Exposure time: 28 Days  
Method: OECD Test Guideline 422  
Remarks: Based on data from similar materials

**12-Hydroxy lithium stearate:**

Species: Rat  
NOAEL: > 88 mg/kg  
Application Route: Ingestion  
Exposure time: 90 Days

**Lithium Hydroxide Monohydrate:**

Species: Rat  
NOAEL: 84 mg/kg  
Application Route: Ingestion  
Exposure time: 2 yr  
Remarks: Based on data from similar materials

**Stearic acid:**

Species: Rat  
NOAEL: 1,000 mg/kg  
Application Route: Ingestion  
Exposure time: 42 Days  
Method: OECD Test Guideline 422

**Titanium dioxide:**

Species: Rat  
NOAEL: 24,000 mg/kg  
Application Route: Ingestion  
Exposure time: 28 Days

Species: Rat  
NOAEL: 10 mg/m<sup>3</sup>

**BESTOLIFE STORAGE COMPOUND**

Version	Revision Date:	SDS Number:	Date of last issue: 09/24/2015
4.2	12/08/2015	117366-00006	Date of first issue: 05/18/2015

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.

**Aspiration toxicity**

Not classified based on available information.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Ingredients:****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 (Chronic 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



**BESTOLIFE STORAGE COMPOUND**

Version	Revision Date:	SDS Number:	Date of last issue: 09/24/2015
4.2	12/08/2015	117366-00006	Date of first issue: 05/18/2015

---

Test substance: Water Accommodated Fraction

Toxicity to algae : NOELR (Pseudokirchneriella subcapitata (green algae)):  $\geq$  100 mg/l  
 Exposure time: 72 h  
 Test substance: Water Accommodated Fraction

Toxicity to daphnia and other aquatic invertebrates (Chronic 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

**12-Hydroxy lithium stearate:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)):  $>$  100 mg/l  
 Exposure time: 96 h  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)):  $>$  100 mg/l  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202

Toxicity to algae : NOELR (Pseudokirchneriella subcapitata (green algae)):  $>$  100 mg/l  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201

**Lithium Hydroxide Monohydrate:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 109 mg/l  
 Exposure time: 96 h  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 33.5 mg/l  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202





**BESTOLIFE STORAGE COMPOUND**

Version      Revision Date:      SDS Number:      Date of last issue: 09/24/2015  
4.2          12/08/2015          117366-00006      Date of first issue: 05/18/2015

---

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

- Waste from residues                      : Dispose of in accordance with local regulations.
- Contaminated packaging                 : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.
- 

**SECTION 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.

**Domestic regulation****49 CFR**

Not regulated as a dangerous good

---

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know****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 311/312 Hazards**                      : Acute Health Hazard

**SARA 302**                                         : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313**                                         : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**US State Regulations****Pennsylvania Right To Know**

**BESTOLIFE STORAGE COMPOUND**

Version	Revision Date:	SDS Number:	Date of last issue: 09/24/2015
4.2	12/08/2015	117366-00006	Date of first issue: 05/18/2015

Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	50 - 70 %
Limestone	1317-65-3	10 - 20 %
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	5 - 10 %
Calcium bis(dinonylnaphthalenesulphonate)	57855-77-3	5 - 10 %
12-Hydroxystearic acid	106-14-9	5 - 10 %
12-Hydroxy lithium stearate	7620-77-1	5 - 10 %
Titanium dioxide	13463-67-7	1 - 5 %

**New Jersey Right To Know**

Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	50 - 70 %
Limestone	1317-65-3	10 - 20 %
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	5 - 10 %
Calcium bis(dinonylnaphthalenesulphonate)	57855-77-3	5 - 10 %
12-Hydroxystearic acid	106-14-9	5 - 10 %
Lithium Hydroxide Monohydrate	1310-66-3	1 - 5 %
Titanium dioxide	13463-67-7	1 - 5 %

**California Prop. 65**

WARNING! This product contains a chemical known in the State of California to cause cancer.

Titanium dioxide	13463-67-7
Quartz	14808-60-7

**The ingredients of this product are reported in the following inventories:**

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.

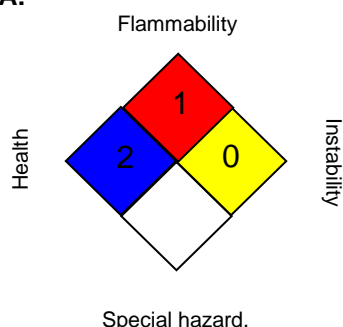
## BESTOLIFE STORAGE COMPOUND

Version 4.2      Revision Date: 12/08/2015      SDS Number: 117366-00006      Date of last issue: 09/24/2015  
 Date of first issue: 05/18/2015

### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA:



##### HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

#### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
US WEEL	: USA. Workplace Environmental Exposure Levels (WEEL)
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 Z-1 / TWA	: 8-hour time weighted average
US WEEL / CEIL	: Ceiling

AICS - Australian Inventory of Chemical Substances; 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 Ob-

**BESTOLIFE STORAGE COMPOUND**

Version	Revision Date:	SDS Number:	Date of last issue: 09/24/2015
4.2	12/08/2015	117366-00006	Date of first issue: 05/18/2015

---

served (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 12/08/2015

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

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.

US / Z8