

# SAFETY DATA SHEET

## BTMS 50

### 1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: BTMS 50

Company: Natural Bulk Supplies, 318 Half Day Rd, # 348,  
Buffalo Grove, IL 60089 Phone: 847-489-7180

Emergency Contact: Infotrac: 800-535-5053(North America) +1-352-323-3500 (International)

### 2. HAZARD IDENTIFICATION

#### GHS Classification

Skin corrosion/irritation: Category2

Serious eye damage/irritation: Category2A

Chronic aquatic toxicity: Category3

#### GHS Label elements

#### Hazard Symbol



#### Signal word

Warning.

#### Hazard statements:

H315 Causes skin irritation

H319 Causes serious eye irritation

H412 Harmful to aquatic life with long lasting effects

#### Precautionary statements:

#### Prevention

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.

P321 Specific treatment.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

**Storage**

Not applicable

**Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulation

**Other hazards:**

Not applicable

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

INCI NAME	Trade names and Synonyms	CAS NO.	Content(%)
Behenyltrimethylammonium methosulfate	Not applicable	81646-13-1	50
1-hexadecanol	Cetyl alcohol ; 1-Hexadecanol ; Palmitic alcohol ; Hexadecyl alcohol ; 1-Cetanol ; Hexadecan-1-ol ; n-1-Hexadecanol ; n-Cetyl alcohol ; n-Hexadecanol ; Palmitic alcohol ;	36653-82-4	40
1,3-Butanediol	Butane-1,3-diol ; Butanediol, 1,3- ; (RS)-1,3-Butanediol ; b-Butylene glycol ; 1,3-Dihydroxybutane ; 1-Methyl-1,3-propanediol ; 3-Hydroxy-1-butanol ; Butylene glycol ; Methyltrimethylene glycol ; DL-1,3-Butanediol	107-88-0	10.0

#### 4. FIRST AID MEASURES

**Ingestion:**

Please be advised by doctor whether induction of vomit is demanded or not.  
Rinse your mouth with water immediately.

**Inhalation:**

Take specific treatment if needed.  
When exposed to large amounts of steam and mist, move to fresh air.

**Skin contact:**

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Wash contaminated clothing thoroughly before re-using.  
Go to the hospital immediately if symptoms (flare, irritate) occur.  
Wash thoroughly after handling.

**Eye contact:**

Do not rub your eyes.  
Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.  
Go to the hospital immediately if symptoms (flare, irritate) occur.  
Remove contact lenses if worn.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

Not applicable

**Notes to physician**

Notify medical personnel of contaminated situations and have them take appropriate protective measures.

#### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:**

Avoid use of water jet for extinguishing.  
Dry chemical, carbon dioxide, regular foam extinguishing agent, spray.

**Special hazards arising from the substance**

Causes serious eye irritation. Causes skin irritation.  
Harmful to aquatic life with long lasting effects

**Advice for firefighters**

Avoid inhalation of materials or combustion by-products  
Cool containers with water until well after fire is out.  
Do not approach the tank surrounded by fire until it is extinguished.  
In case of conflagration, use automatic fire sprinkler. Major fire may require withdrawal, allowing the object itself to burn.  
Keep unauthorized personnel out.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

Do not touch spilled material. Stop leak if you can do it without risk.  
Handle the damaged containers or spilled material after wearing appropriate protective equipment.  
Move container to safe area from the leak area.  
Must work against the wind, let the upwind people to evacuate.  
Remove all sources of ignition.

### **Environmental precautions:**

If large amounts have been spilled, inform the relevant authorities.  
Prevent runoff and contact with waterways, drains or sewers.

### **Methods and materials for containment and cleaning up**

Appropriate container for disposal of spilled material collected.  
Disposal of waste shall be in compliance with the Wastes Control Act.  
Dust spills: Cover dust spills with plastic sheet or waterproof cloth to minimize spreading and avoid contact with water.  
Large spill : Stay upwind and keep out of low areas. Dike for later disposal.  
Notify the central and local government if the emission reach the standard threshold.

## 7. HANDLING AND STORAGE

### **Precautions for safe handling**

Avoid contact with incompatible materials.  
Avoid direct physical contact.  
Comply with all applicable laws and regulations for handling.  
Dealing only with a well-ventilated place.  
Do not handle until all safety precautions have been read and understood.

### **Conditions for safe storage**

Avoid direct sunlight.  
Check regularly for leaks.

Do not apply any physical shock to container.  
Do not apply direct heat.  
Do not use damaged containers.

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

### **Exposure limits**

#### **ACGIH TLV**

Not applicable

#### **OSHA PEL**

Not applicable

### **Exposure controls**

Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of gas/vapour/mist/fume.

### **Individual protection measures**

#### **Respiratory protection**

Air-purifying respirator with high-efficiency particulate filtering.

Any respiratory protection with a electro motion fan (for dust, mist, fume-purifying).

Consider warning properties before use.

Dust, mist, fume-purifying respiratory protection.

For Unknown Concentration or Immediately Dangerous to Life or Health: Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

Respiratory protection is ranked in order from minimum to maximum.

Self-contained breathing apparatus with a corpuscle filter of high efficiency.

Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.

#### **Eye protection**

Provide an emergency eye wash station and quick drench shower in the immediate work area.

Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.

#### **Hand protection**

Wear appropriate chemical resistant glove.

#### **Skin protection**

Wear appropriate chemical resistant protective clothing.

**Respiratory protection:**

Not applicable

**9. PHYSICAL AND CHEMICAL PROPERTIES**

A. Appearance	
- Appearance	Solid (at 25°C)
- Color	White to off white
B. Odor	Not applicable
C. Odor threshold	Not applicable
D. pH	5-7 (2% in DI H <sub>2</sub> O)
E. Melting point/Freezing point	65-79°C
F. Initial Boiling Point/Boiling Ranges	Not applicable
G. Flash point	>93°C
H. Evaporation rate	>1 (Air=1)
I. Flammability(solid, gas)	Not applicable
J. Upper/Lower Flammability or explosive limits	Not applicable
K. Vapour pressure	Not applicable
L. Solubility	Insoluble in water
M. Vapour density	Not applicable
N. Specific gravity(Relative density)	0.87 at 70°C (water=1)
O. Partition coefficient of n-octanol/water	Not applicable
P. Autoignition temperature	Not applicable
Q. Decomposition temperature	Not applicable
R. Viscosity	Not applicable
S. Molecular weight	476

**10. STABILITY AND REACTIVITY**

**Chemical stability**

This material is stable under recommended storage and handling conditions.

**Possibility of hazardous reactions**

Hazardous Polymerization will not occur.

**Conditions to avoid**

Avoid: Accumulation of electrostatic charges, Heating, Flames and hot surfaces.

Avoid contact with incompatible materials and condition.

**Incompatible materials**

Not applicable

**Hazardous decomposition products**

May emit flammable vapour if involved in fire.

**11. TOXICOLOGICAL INFORMATION**

**Information on the likely routes of exposure:**

**Respiratory tracts**

Not applicable

**Oral**

Not applicable

**Eye-Skin**

Causes serious eye irritation. Causes skin irritation

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Acute toxicity:**

**Oral**

Product (ATEmix): >5000mg/kg

[1-hexadecanol]: LD50 5000 mg/kg Rat.

[1,3-Butanediol]: LD50 = 18610 mg/kg Rat (IUCLID; NLM)

**Dermal**

Product (ATEmix) : >5000mg/kg

[1-hexadecanol]: LD50 > 2600 mg/kg Rabbit.

[1,3-Butanediol]: LD50 > 20000 mg/kg Rabbit (NLM, THOMSON)

**Inhalation**

Product (ATEmix): Not applicable.

**Skin corrosion/irritation**

Causes skin irritation

**Serious eye damage/irritation**

Causes serious eye irritation

**Respiratory sensitization**

Not applicable

**Skin sensitization**

Not applicable

**Carcinogenicity**

**IARC**

Not applicable

**OSHA**

Not applicable

**ACGIH**

Not applicable

**NTP**

Not applicable

**EU CLP**

Not applicable

**Germ cell mutagenicity**

Not applicable

**Reproductive toxicity**

Not applicable

**STOT-single exposure**

Not applicable

**STOT-repeated exposure**

Not applicable

**Aspiration hazard**

Not applicable



## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

#### Fish

[1-hexadecanol]: LC50 0.005 mg/l 96 hr (Estimate)

[1,3-Butanediol]: LC50 = 9493.724 mg/l 96 hr (Estimate)

#### Crustaceans

[1,3-Butanediol]: LC50 = 8684.336 mg /l 48 hr (Estimate)

#### Algae

[1-hexadecanol]: EC50 676 mg /l 96 hr (IUCLID)

[1,3-Butanediol]: EC50 = 4758.681 mg /l 96 hr (Estimate)

### Persistence and degradability No data available:

#### Persistence

[1-hexadecanol]: log Kow 6.65 (IUCLID).

[1,3-Butanediol]: log Kow -0.29 (Estimate) (ChemIDplus)

#### Degradability

Not applicable

### Bioaccumulative potential:

#### Bioaccumulative potential

[1-hexadecanol]: BCF 56 (NLM/HSDB)

#### Biodegradation

[1-hexadecanol]: 76 (%) 28 day (IUCLID)

#### Mobility in soil

[1-hexadecanol]: Koc 25000 (NLM/HSDB)

### Other adverse effects

Not applicable

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

It shall be treated by incineration.

Oil water separation technology shall be applied as pre-waste treatment if it is applicable

Stabilization and minimization treatment by incineration or similar method can be applied, if more than two kinds of designated wastes are in mixture state and it is impractical to separate them

**Special precautions for disposal**

Anyone with business license number who generates industrial wastes shall treat the waste by him/herself or by entrusting to the legal entities who treat the wastes, recycle the wastes of others or install and operate the waste treatment facilities according to the Wastes Control Act Dispose of waste in accordance with all applicable laws and regulations.

**14. TRANSPORT INFORMATION**

**UN No. (IMDG CODE/IATA DGR)**

Not applicable

**Proper shipping name**

Not applicable

**Hazard Class**

Not applicable

**IMDG CODE/IATA DGR Packing group**

Not applicable

**Marine pollutant**

Not applicable

**Special precautions for user related to transport or transportation measures**

Air transport (IATA): Not subject to IATA regulations.

Local transport follows in accordance with Dangerous goods Safety Management Law.

Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.

EmS FIRE SCHEDULE: Not applicable

EmS SPILLAGE SCHEDULE: Not applicable

**15. REGULATORY INFORMATION**

**National and/or international regulatory information**

**POPs Management Law**

[Behenyltrimethylammonium methosulfate]: Not applicable

[1-hexadecanol] : Not applicable

[1,3-Butanediol] : Not applicable



**Information of EU Classification**

Classification: Not applicable

**U.S. Federal regulations**

**OSHA PROCESS SAFETY (29CFR1910.119)**

Not applicable

**CERCLA Section 103 (40CFR302.4)**

Not applicable

**EPCRA Section 302 (40CFR355.30)**

Not applicable

**EPCRA Section 304 (40CFR355.40)**

Not applicable

**EPCRA Section 313 (40CFR372.65)**

Not applicable

**Rotterdam Convention listed ingredients**

Not applicable

**Stockholm Convention listed ingredients**

Not applicable

**Montreal Protocol listed ingredients**

Not applicable

**16. OTHER INFORMATION**

**Reference**

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

This Safety Data Sheet was compiled with data and information from the following sources: KOSHA, NITE, ESIS, NLM, SIDS, IPCS

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**Revision number and Last date revised**

Not applicable

**Other**

This SDS is prepared according to the Globally Harmonized System (GHS)

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