

SAFETY DATA SHEET

BTMS 25%

1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: BTMS 25%

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 – Category 2 Eye damage/irritation – Category 2B Chronic (long-term)
aquatic hazard - Category 3

Symbol



Signal Word

Warning

Hazard Statement

H315

Causes mild skin irritation

H320

Causes eye irritation

H412

Harmful to aquatic life with long lasting effects.

Precautionary Statement

Prevention:

P264

Wash thoroughly after handling

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing /eye protection/face protection

Response:

P302+P352

IF ON SKIN : Gently 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

Take off contaminated clothing and wash before reuse.

Storage:

P404

Store in a closed container

Disposal:

P501

Dispose of contents/container in accordance with local/ regional /national/international regulations (to be specified).

3. COMPOSITION/INFORMATION ON INGREDIENTS

INCI NAME	CAS NO.	CONCENTRATION (%)
C18-22 Trimethyl ammonium Methosulfate	81646-13-1	20 – 30
Hexadecanol	36653-82-4	45 – 55
Octadecanol	112-92-5	20 – 30

Note: The information contained within this document was prepared by technical personnel and is believed to be true and accurate to the best of our knowledge. However, no warranty, express or implied, is provided regarding merchantability, fitness for a particular purpose, performance, safety, suitability, stability, or other aspects of the product. This information is not comprehensive and does not cover all potential conditions of use, handling, storage, disposal, or other factors that may involve legal, environmental, safety, or performance considerations. Natural Bulk Supplies accepts no liability for the use of or reliance upon this information. Our technical personnel are available to address inquiries, but the customer bears ultimate responsibility for the safe handling and use of the product. No suggestions for use are made that would encourage the infringement of existing patents or the violation of any Federal, State, local, or foreign laws.

4. FIRST AID MEASURES

Eye Contact

Flush eyes with running water for at least 15 minutes. If needed, call a physician.

Skin Contact

Flush skin with running water for at least 15 minutes. Remove and isolate contaminated clothing and shoes.

Wash and dry contaminated clothing and shoes before reuse thoroughly. If symptoms persist, seek medical attention.

Inhalation

Move victim to fresh air.

Give artificial respiration if breathing has stopped. If needed, call a physician.

Swallowing

Seek medical attention if needed.

Never give anything by mouth to an unconscious person.

Notes to Physician

Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves.

Important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide, water fog or spray

Unsuitable Extinguishing Media

Hazardous Combustion Products Protection to firefighters

Hydrogen chloride, Nitrogen oxides (NO_x)

Special Hazards

Toxic fumes when combustion or in high temperatures occurs.

Protective Equipment

Firefighters should wear self-contained breathing apparatus (SCBA).

Structural firefighter's protective clothing will only provide limited protection.

General Fire Hazards

Water or foam may cause frothing which can be violent and possibly endanger the life of the fire fighter.

Water may be used to keep fire-exposed containers cool until fire is out.

Wear a self-contained breathing apparatus with a full face piece in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation.

Evacuate personnel to safe areas. Avoid breathing dust.

No danger almost exists as adding agent of detergents. Wash off in clean water.

Use approved dust mask if dust levels are irritating.

Environmental Precautions

Atmosphere : Use with adequate ventilation.

Land : Collect the spill for later disposal.

Underwater : Prevent entry into waterway and sewers.

Methods for Clean-up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Collect as much as possible in a clean container for (preferable) reuse or disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Safe Handling

Avoid breathing dusts.

Wash off in water after treatment. Use with adequate ventilation.

Avoid contact with eyes, skin, and clothing.

Since emptied containers retain product residues, all hazard precautions given in the data sheet must be observed.

Safe Storage

Normal temperature and normal pressure. Keep container closed tightly when not in use.

Avoid prolonged exposure to heat and air.

Empty container contains residual product which may exhibit hazards of product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Provide adequate ventilation.

Exposure Limits

None established by OSHA, ACGIH

Personal Protective Equipment

Respiratory Protection

None required under normal handling conditions. Use approved dust mask if dust levels are irritating.

Eyes

Wear safety goggles with side shields. Protect against dust and particulates.

Skin

Wear chemically resistant gloves.

Clothing

Wear chemically resistant lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid (at 25°C)
Color	No data
Odor / Odor threshold	No data
pH	5 – 7 (2% in H ₂ O/IPA 1:1)
Melting point	Not applicable
Initial boiling point and Boiling range:	Not applicable
Flashpoint	No data
Evaporation rate	>1
Flammability (solid, gas)	No data
Upper/lower flammability or explosive limits	No data
Vapor pressure	Not applicable
Solubility	Insoluble in water
Vapor density	>1 (Air=1)
Relative Density	0.87 at 70°C (water=1)
Partition coefficient (n-octanol/water)	No data
Auto-ignition temperature	No data
Decomposition temperature	No data
Viscosity	No data
Molecular weight	No data

Note: The information contained within this document was prepared by technical personnel and is believed to be true and accurate to the best of our knowledge. However, no warranty, express or implied, is provided regarding merchantability, fitness for a particular purpose, performance, safety, suitability, stability, or other aspects of the product. This information is not comprehensive and does not cover all potential conditions of use, handling, storage, disposal, or other factors that may involve legal, environmental, safety, or performance considerations. Natural Bulk Supplies accepts no liability for the use of or reliance upon this information. Our technical personnel are available to address inquiries, but the customer bears ultimate responsibility for the safe handling and use of the product. No suggestions for use are made that would encourage the infringement of existing patents or the violation of any Federal, State, local, or foreign laws.

10. STABILITY AND REACTIVITY

Stability

Stable under normal temperature and pressure

Conditions to avoid

Stable under recommended storage and handling conditions. Contact with moisture and/or water.

Incompatible Materials

Oxidizing agents

Hazardous Decomposition Product

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (Oral)

Not classified

(The acute oral toxicity of 20-30% of the mixture is unknown.) Hexadecanol

Rat LD50=5,000 mg/kg (NLM:HSDB) (IUCLID)

Octadecanol

Rat LD50>5000 mg.kg OECD 401 GLP (IUCLID)

Acute toxicity (Dermal) Not classified

(The acute dermal toxicity of 60-75% of the mixture is unknown.) Hexadecanol

Rabbit LD50>5,000 mg/kg bw (IUCLID) Guinea pig LD50<10,000 mg/kg (NLM:HSDB)

Acute toxicity (inhalation)

No data

Skin corrosion/irritation

Hexadecanol

rabbit, rat –irritating (IUCLID) Octadecanol

Rabbit, slightly irritating (IUCLID)

Serious eye damage/eye irritation

Hexadecanol

rabbit-slightly irritating (IUCLID) Octadecanol

Rabbit, slightly irritating ; Draze test (IUCLID)

Respiratory sensitization

No data

Skin sensitization

Hexadecanol

Guinea pig maximization test : not sensitizing (IUCLID) Octadecanol

Guinea pig maximization test : not sensitizing (IUCLID)

Carcinogenicity

No data

Germ cell mutagenicity

Hexadecanol

In Vitro: Salmonella typhimurium TA 98, TA 100, TA 1535, TA 1537, TA 1538 - negative (IUCLID)

Octadecanol

In vivo, mouse, micronucleus assay : negative (IUCLID)

Reproductive toxicity

Octadecanol

Rat, oral NOAEL (Parental, F1)>2000 mg/kg bw GLP (IUCLID)

Specific target organ Toxicity (Single exposure)

No data

Specific target organ Toxicity (Repeated exposure)

Hexadecanol

rat(m/f) oral feed 13 weeks NOAEL<1000 mg/kg (IUCLID) Octadecanol

Rat oral feed 28 days NOAEL>1000 mg/kg GLP (IUCLID)

Aspiration

No data

The toxicity data of C18-22 Trimethyl ammonium methosulfate (20-30% of this product) is not found.

12. ECOLOGICAL INFORMATION

Toxicity

Hexadecanol

Algae, Scenedesmus subspicatus 72hr EC50=676 mg/L (ECOTOX)

Octadecanol

Fish: Brachydanio rerio 96hr LC50>10000 mg/L (IUCLID), Oncorhynchus mykiss 96hr

LC50=1000 mg/L (ECOTOX) Daphnia magna 48hr EC50=1666 mg/L, 21d NOEC=0.98 mg/L

GLP (IUCLID)

Algae Scenedesmus subspicatus 96hr EC50=235 mg/L GLP (IUCLID)

Persistence and degradability

Hexadecanol - Ready biodegradability MITI-I (OECD TG 301C) (CHRIP)

Octadecanol – 67%/28days GLP (IUCLID)

Bioaccumulative potential

Octadecanol BCF=28000 (HSDB)

Mobility in soil

No data

Other adverse effects

No data

13. DISPOSAL CONSIDERATIONS

Incinerate or landfill waste in a properly permitted facility in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

UN Number

N/A

Proper Shipping Name

N/A

Transport hazard class

N/A

Packing group, if applicable

N/A

Environmental hazards

N/A

Special Precautions for User

N/A

15. REGULATORY INFORMATION

EU Regulation

Directive 67/548/EEC: Not regulated

CLP regulation (EC) No 1272/2008: Not regulated HPV Chemical: Not regulated

US Regulation

OSHA Regulation (Standard-29 CFR) 1910.119 : Not regulated CERCLA SARA Title III

Section 313: Not regulated

CERCLA Reportable Quantities: Not regulated
CERCLA SARA Title III Section 304: Not regulated
CERCLA SARA Title III Section 302: Not regulated
Toxic Substance Control Act (TSCA) Inventory: Hexadecanol & Octadecanol are registered

International Regulation

International Council of Chemical Associations (ICCA) HPV Chemicals Programme
Hexadecanol - regulated
OECD/High Production Volume (HPV) Chemicals Programme : Hexadecanol - regulated
Rotterdam Convention: Not regulated
Stockholm Convention on Persistent Organic Pollutants (POPs): Not regulated
Montreal Protocol: Not regulated

16. OTHER INFORMATION

All statements, technical information and recommendations contained herein are based on tests and data which Natural Bulk Supplies believes to be currently reliable, but this accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this company or others covering any process, composition of matter or use. Since we shall have no control of the use of the product described here in, we assume no Liability for loss or damage incurred from the proper or improper use of such product.