Safety Data Sheet

BTMS-50 Conditioning Emulsifier (I000830)

September 9, 2020

Section 1: Chemical Product and Company Identification

Product name: BTMS-50 Conditioning Emulsifier

Contact Info:
YouWish
Venserweg 21M
1112AR Diemen
The Netherlands

Emergency Phone Number:
Within USA & Canada: 1.800.424.9300 CCN693143
Outside USA & Canada: +1.703.527.3887 (collect calls accepted)

Section 2: Hazards Identification

GHS Classification :

Skin corrosion/irritation – Category 2
Serious eye damage/eye irritation – Category 2A
Chronic (long-term) aquatic hazard - Category 3

○ **Symbol :**

○ **Signal word :** Warning

○ **Hazard statement :**

H315 Causes mild skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling
P271	Use only outdoors or in a well-ventilated area.
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.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a poison center or doctor/physician if you feel unwell.
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

P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Disposal

P501	Dispose of contents/container in accordance with local/regional /national/international regulations (to be specified).

Section 3: Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent (% w/w)
Behentrimonium methosulfate	**81646-13-1**	**50**
n-Hexadecanol (Cetyl alcohol)	**36653-82-4**	**40**
Butylene glycol	**107-88-0**	**10**

Section 4: First Aid Measures

After eye contact

- ○ Flush eyes with running water for at least 15 minutes.
- ○ Immediately seek medical attention.

After 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.
- ○ Immediately seek medical attention.

After inhalation

- ○ Move victim to fresh air.
- ○ Give artificial respiration if breathing has stopped.
- ○ If needed, call a physician.

After 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.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable extinguishing agents : Carbon dioxide, water fog or spray

Unsuitable extinguishing agents : -

Large Fires : -

Hazardous combustion products : Hydrogen chloride, Nitrogen oxides (NOx)

Protection of firefighters

Specific hazards arising from the chemical : Thermal decomposition may produce toxic fumes of the following: Hydrogen chloride and nitrogen oxides(NOx)

Protective equipment for firefighters :

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 facepiece in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

Section 6: Accidental Release Measures

Personal precautions

- ○ 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 cleaning up

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

Section 7: Handling and Storage

Safe Handling

- ○ Vapor can foam an explosive with air. 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

- ○ Keep container tightly closed and well-ventilated place.
- ○ Avoid prolonged exposure to heat and air.
- ○ Do not handle or store near an open flame, heat or other sources of ignition

Section 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

Section 9: Physical and Chemical Properties

Appearance	Solid (at 25℃)
Color	No data
Odor / Odor threshold	No data
pH	5 – 7 (2% in DI H2O)
Melting point	65~79℃
Initial boiling point and Boiling range:	Not applicable
Flashpoint	>93℃
Evaporation rate	No data
Flammability (solid, gas)	No data
Upper/lower flammability or explosive limits	No data
Vapor pressure	No data
Solubility	Insoluble in water
Vapor density	>1 (Air=1)
Relative Density	0.87 at 70℃ (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

Section 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 causing lump situation.
Incompatible materials : Oxidizing agents
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced

Section 11: Toxicological Information

Acute toxicity (Oral)	**ATE mix=**5,856 mg/kg (The acute oral toxicity of 50% of the mixture is unknown.) **n-Hexadecanol** Rat LD50=5,000 mg/kg (NLM:HSDB) (IUCLID) **Butylene glycol** Rat LD50=18,610 mg/kg (IUCLID)
Acute toxicity (Dermal)	(The acute dermal toxicity of 60% of the mixture is unknown.) **n-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	**n-Hexadecanol** rabbit, rat –irritating (IUCLID) **Butylene glycol** Butylene glycol is not irritating to human skin. (NLM:HSDB) Rabbit, slightly irritating (IUCLID) The substance irritates the eyes, the skin and the respiratory tract.(ICSC)
Serious eye damage/eye irritation	**n-Hexadecanol** rabbit-slightly irritating (IUCLID) **Butylene glycol** A tiny drop of Butylene glycol applied to the

	human eye causes immediate severe stinging (NLM:HSDB) Rabbit, slightly irritating (undiluted; acute ocular irritation index=12.33 (IUCLID) The substance irritates the eyes, the skin and the respiratory tract.(ICSC)
Respiratory sensitization	No data
Skin sensitization	**n-Hexadecanol** Guinea pig maximization test : not sensitizing (IUCLID) **Butylene glycol** Human, not sensitizing (patch-test), (IUCLID)
Carcinogenicity	**Butylene glycol** Rat (dose: 10%, route: oral feed, Exposure period: 2 years); no increase in tumor incidence compared to the control. (IUCLID)
Germ cell mutagenicity	**n-Hexadecanol** In Vitro: Salmonella typhimurium TA 98, TA 100, TA 1535, TA 1537, TA 1538 - negative (IUCLID) **Butylene glycol** In vivo, rat, Cytogenetic assay ; negative (IUCLID) In vivo, rat, Dominant lethal assay ; negative (IUCLID
Reproductive toxicity	**Butylene glycol** Rat, five generation study : The pregnancy rate of F1 rats decreased during five successive mating cycles. F2 generation pups revealed no significant differences between litters or between control and test groups. (IUCLID) Rat, oral feed, NOAEL=24% : no definitive dose related teratological findings in either soft or skeletal tissue. Fetotoxicity (e.g., delayed ossification of sternebrae) noted at 10% and 24%

	doses.
Specific target organ Toxicity (Single exposure)	**Butylene glycol** Butylene glycol is not irritating to human mucous membranes. (NLM:HSDB) The substance irritates the eyes, the skin and the respiratory tract.(ICSC) Rat, inhalation hazard test for 8 hours : no deaths from exposure to saturated vapor. (IUCLID)
Specific target organ toxicity (Repeated exposure)	**n-Hexadecanol** rat(m/f) oral feed 13 weeks NOEAL<1000 mg/kg (IUCLID) **Butylene glycol** Rat, oral feed, 2 years NOAEL=10%: no adverse effects compared to control. (IUCLID)
Aspiration	No data
The toxicity data of behentrimonium methosulfate (50% of this product) is not found	

Section 12: Ecological Information

Toxicity	**n-Hexadecanol** Algae, Scenedesmus 72hr EC50=676 mg/L (ECOTOX)
Persistence and degradability	n-Hexadecanol - Ready biodegradability MITI-I (OECD TG 301C) (CHRIP) Butylene glycol - Screening study, can be biodegraded. (NLM:HSDB)
Bioaccumulative potential	No data
Mobility in soil	No data
Other adverse effects	No data

Section 13: Disposal Conditions

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

Section 14: Transport Information

UN Number	: -
Proper Shipping Name	: -
Transport hazard class	: -
Packing group, if applicable	: -
Environmental hazards	: -
Special precautions for user	: -

Section 15: Regulatory Information

Safety, health and environmental regulations specific for the product in question:

○ **EU Regulation**

- REACH

n-Hexadecanol and Butylene glycol – registration under REACH Article 10 as a full dossier

- OECD/High Production Volume (HPV) Chemicals Programme: n-Hexadecanol and Butylene glycol

○ **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** is registered

○ **International Regulation**

- INCI(International Nomenclature of Cosmetic Ingredients): No restriction.
- International Council of Chemical Associations (ICCA) HPV Chemicals Programme: n-Hexadecanol and Butylene glycol

- Rotterdam Convention: Not regulated
- Stockholm Convention on Persistent Organic Pollutants(POPs): Not regulated
- Montreal Protocol: Not regulated

Section 16: Other Information

References
○ National library of Medicine (NLM)
○ ECB-ESIS (European chemical Substances Information System)
○ e-Chemportal: The Global Portal to Information on Chemical Substances
○ Emergency Response Guidebook (2008)
○ UCLID, NLM
○ International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis)
○ Ecological Structure Activity Relationships(ECOSAR)(어류)
○ National Library of Medicine/Hazardous Substances Data Bank(NLM/HSDB)
○ International Program on Chemical Safety (IPCS INCHEM)
○ Hazardous Substances Data Bank (HSDB)
○ Organization for Economic Cooperation and Development (OECD) Existing Chemicals Database (OECD HPV)
○ U.S. Environmental Protection Agency Ecotoxicology database (ECOTOX)
○ American Conference of Governmental Industrial Hygienists (ACGIH)
○ Occupational Safety & Health Administration (OSHA)
○ Chemical Risk information Platform (CHRIP)
○ European Waste Catalogue and Hazardous Waste List