

SAFETY DATA SHEET

REVISED 2/18/18

BTNMOAT FULLY FORMULATED NITRITE MOLYBDATE ORGANIC ACID TECHNOLOGY

SECTION 1: Identification

Product identifier

Product name BTNMOAT
Product description Fully formulated nitrite, Molybdate, and organic acid technology.

Supplier's details

Name Blend Tech, Inc
Address PO Box 36000
 Lake Tahoe, NV 89449

Emergency phone number(s)

Professional Emergency Resource Services
Domestic: 800-633-8253
International: 8014-629-0667

SECTION 2: Hazard identification

Classification of the mixture

GHS classification in accordance with OSHA (29 CFR 1910.1200)

Eye damage/irritation, Cat. 1
Skin corrosion/irritation, Cat. 2
Toxic to reproduction, Cat 2

GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

Causes skin irritation
Causes serious eye damage
Harmful if swallowed
Suspected of damaging the unborn child

Precautionary statement(s)

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing vapors.
IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.
Continue rinsing.
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Call a POISON CENTER or doctor if you feel unwell.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

1. 2-ETHYLHEXANOIC ACID

Concentration 45 - 50 %
CAS no. 149-57-5

2. POTASSIUM HYDROXIDE

Concentration 20 - 25 %
CAS no. 1310-58-3

3. TOLYLTRIAZOLE

Concentration 5 - 10 %
CAS no. 29385-43-1

4. SODIUM NITRITE

Concentration < 2 %
CAS no. 29385-43-1

* All percentages are by weight.

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	Move to fresh air. If breathing is difficult, administer oxygen. Get medical attention.
In case of skin contact	Wash affected area immediately with soap and water. If clothing is contaminated, remove and launder before reuse.
In case of eye contact	Immediately flush with water for at least 15 minutes or until the chemical is removed. Get medical attention!

If swallowed Do not induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Most important symptoms/effects, acute and delayed

Inhalation: May cause physical discomfort to the respiratory tract.
Eyes: Causes severe irritation (tears, blurred vision and redness) May result in permanent eye damage.
Ingestion: May cause nausea and vomiting. May cause irritation to the mouth, throat and stomach.
Skin: Prolonged contact may cause mild skin irritation.
Target: Not Determined.
Potential Carcinogens: None.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Carbon dioxide, dry chemical, foam or water spray.

Specific hazards arising from the chemical

No data.

Special protective actions for fire-fighters

Vapors and fumes may be irritating and toxic. Firefighters should wear self-contained breathing apparatus and full fire-fighting turnout gear.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment as specified in Section 8.

Environmental precautions

Minimize use of water to prevent environmental contamination. Do not flush to sewer or drain.

Methods and materials for containment and cleaning up

If possible, stop further leakage of the material. Contain spilled material by diking with non-flammable diking materials. Neutralize spilled material. Pump spilled liquid into disposal container.

SECTION 7: Handling and storage

Precautions for safe handling

Use good industrial practices when handling. Avoid eye, skin, and clothing contact. Do not inhale mist or vapors. Do not taste or swallow. Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities

Keep container closed when not in use. Avoid elevated and freezing temperatures.

SECTION 8: Exposure controls/personal protection

Control parameters

Potassium Hydroxide (1310-58-3)

OSHA TWA, 2 mg/m³
ACGIH TWA, 2 mg/m³

2-Ethylhexanoic Acid (149-57-5)
ACGIH TWA, 5 mg/m³

Individual protection measures, such as personal protective equipment (PPE)

General Hygiene: Discard contaminated gloves after use. Have eye-wash facilities in the immediate vicinity. Work in adequately ventilated area. Do not breathe vapors or mist. Minimize any contact with any chemical.

Respiratory Protection: No special respiratory equipment is needed.

Eye/Face Protection: Wear safety glasses when handling this material.

Skin Protection: Wear nitrile or latex gloves. Wear protective clothing.

Engineering Controls: Work in well ventilated areas. Do not breathe vapors or mists.

Other Protective Controls: Eye wash station and safety shower should be available in immediate work area. Select additional protective equipment based upon potential for exposure.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Clear (Color May Vary)
Odor	Slight
Odor threshold	Not Established
pH	9.0
Melting point/freezing point	Not Established
Initial boiling point and boiling range	>212°F
Flash point	Non Flammable
Evaporation rate	Not Determined
Vapor pressure	Not Determined
Vapor density	Not Determined
Relative density	1.0
Solubility(ies)	Complete

SECTION 10: Stability and reactivity

Stability: Stable.

Conditions to Avoid: None known.

Incompatible Materials: Strong Reducers.

Hazardous Decomposition Products: Upon thermal decomposition carbon oxides and nitrogen oxides may form.

Possibility of Hazardous Reactions: None expected.

SECTION 11: Toxicological information

Information on toxicological effects (The toxicological data below is based on the main component(s)).

Acute Oral Toxicity:

LD50(rat) = 2,043 mg/Kg (2-Ethylhexanoic Acid 149-57-5)
LD50(rat) = 333 mg/Kg (Potassium Hydroxide 1310-58-3)
LD50(rat) = 675 mg/Kg (Tolyltriazole 29385-43-1)
LD50(rat) = 180 mg/Kg, LD50(human) = 70 mg/Kg (Sodium Nitrite)

Acute Dermal Toxicity:

LD50(rat) = >2,000 mg/Kg (2-Ethylhexanoic Acid 149-57-5)
LD50(rat) = >4,000 mg/Kg (Tolyltriazole 29385-43-1)
LD50(rabbit) = 178 mg/Kg (Sodium Nitrite)

Acute Inhalation Toxicity:

LC50 (Rat, 8 h): > 0.11 mg/l (2-Ethylhexanoic Acid 149-57-5)
LC50 (Rat, 1 h): > 1.73 mg/l (Tolyltriazole 29385-43-1)

Skin corrosion/irritation

Skin - Rabbit
Result: Severe skin irritation - 24 h (Potassium Hydroxide 1310-58-3)

Serious eye damage/eye irritation

Eyes - Rabbit
Result: Corrosive to eyes (Potassium Hydroxide 1310-58-3)
(OECD Test Guideline 405)

Reproductive Toxicity

Suspected of damaging the unborn child (2-Ethylhexanoic Acid 149-57-5)

SECTION 12: Ecological information

Information on toxicological effects (The toxicological data below is based on the main component(s)).

Toxicity to Fish

LC50 (Potassium Hydroxide 1310-58-3) - *Gambusia affinis* (Mosquito fish) - 80 mg/l - 96 h
LC50 (Tolyltriazole 29385-43-1) - *B. rerio* - 65 mg/L - 96 h
LC50 (2-Ethylhexanoic Acid 149-57-5) - *Oryzias latipes* - >100 mg/L - 96 h

Toxicity to Aquatic Invertebrates

EC50 (Tolyltriazole 29385-43-1) - *D. magna* - 35.4 mg/L - 48 h
EC50 (2-Ethylhexanoic Acid 149-57-5) - *Water Flea* - >85.4 mg/L - 48 h

Toxicity to Aquatic Plants

EC50 (Tolyltriazole 29385-43-1) - *S. subspicatus* - 62 mg/L (growth) - 72 h
EC50 (2-Ethylhexanoic Acid 149-57-5) - *Scenedesmus subspicatus* - 49.3 mg/L - 72 h

SECTION 13: Disposal considerations

Product Disposal : Dispose of at a supervised incineration facility or an appropriate waste disposal facility according to current applicable local, state and federal laws, regulations and product characteristics at time of disposal.

Empty Container : Contaminated container should be labeled and disposed in accordance to local, state and federal laws and regulations.

SECTION 14: Transport information

DOT (US)

Not regulated for transport.

SECTION 15: Regulatory information

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

OSHA HAZARD COMMUNICATION STANDARD: This material is considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

SARA 302 Components

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

SARA 311-312 Hazard Classification(s):

Acute health hazard - Yes

Chronic health hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 313 Components

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

Massachusetts Right To Know Components

Chemical name: POTASSIUM HYDROXIDE

CAS number: 1310-58-3

New Jersey Right To Know Components

Common name: POTASSIUM HYDROXIDE

CAS number: 1310-58-3

Pennsylvania Right To Know Components

Chemical name: POTASSIUM HYDROXIDE

CAS number: 1310-58-3

California Prop. 65 components

Chemical name: 2-ETHYLHEXANOIC ACID

CAS number: 149-57-5

Developmental - 8/7/09

SECTION 16: Other information

NFPA: National Fire Protection Association

Health: 1 Fire: 0 Reactivity: 0

IMO International Maritime Organization

EmS F-A, S-B

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out of use of this information or the use of any materials designated. It is the user's responsibility for determining whether the product is suitable for its intended conditions of use.