



Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.25.2019

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SECTION 1: Identification

Product identifier

Product name: MIC-Guard

Product code: 1

Recommended use of the product and restriction on use

Relevant identified uses: Materials additive

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

Buffalo Technology Group or BTG Products

2200 4th Ave 303 STE

Canyon, TX 79015

806-344-8678

Emergency telephone number:

United States

Poison Control Center

1-800-222-1222

SECTION 2: Hazard(s) identification

GHS classification: Not a hazardous substance or mixture

Label elements

Hazard pictograms: None

Signal word: None

Hazard statements: None

Precautionary statements: None

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: Proprietary	Proprietary Ingredient 1	1.73-3.46
CAS number: Proprietary	Proprietary Ingredient 2	0.27-0.54
CAS number: Proprietary	Proprietary Ingredient 3	96-98

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Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position
Maintain an unobstructed airway
Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention

After swallowing:

Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Carbon monoxide and carbon dioxide may form upon combustion
Heating causes a rise in pressure, risk of bursting and combustion

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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

- Ensure adequate ventilation
- Ensure air handling systems are operational
- Wear protective eye wear, gloves and clothing

Environmental precautions:

- Should not be released into the environment
- Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

- Wear protective eye wear, gloves and clothing
- Sweep or scoop up solid material while minimizing dust generation
- Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

- Use only with adequate ventilation.
- Avoid breathing dust.
- Do not eat, drink, smoke or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

- Keep container tightly sealed.
- Keep container dry.
- Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Proprietary Ingredient 3	Proprietary	ACGIH TLV TWA 2.0 mg/m ³
	Proprietary Ingredient 3	Proprietary	ACGIH TLV TWA 10.0 mg/m ³
	Proprietary Ingredient 2	Proprietary	ACGIH TLV TWA 1.0 mg/m ³ (respirable fraction)
	Proprietary Ingredient 1	Proprietary	8-Hours Exposure Limit TWA: 0.1 mg/m ³
	Proprietary Ingredient 3	Proprietary	TWA 2.0 mg/m ³
United States (OSHA)	Proprietary Ingredient 2	Proprietary	OSHA PEL TWA 15.0 mg/m ³ (total dust)
	Proprietary Ingredient 2	Proprietary	OSHA PEL TWA 5.0 mg/m ³ (respirable fraction)
	Proprietary Ingredient 3	Proprietary	OSHA PEL TWA 5 mg/m ³ (Fume)
	Proprietary Ingredient 3	Proprietary	OSHA PEL TWA 15 mg/m ³ (Total dust)
	Proprietary Ingredient 3	Proprietary	OSHA PEL TWA 5 mg/m ³ (Respirable fraction)
	Proprietary Ingredient 1	Proprietary	TWA: 0.01 mg/m ³
NIOSH	Proprietary Ingredient 1	Proprietary	REL: 0.01 mg/m ³

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Proprietary Ingredient 1	Proprietary	IDLH: 10 mg/m ³
	Proprietary Ingredient 3	Proprietary	NIOSH REL TWA 5.0 mg/m ³ ; C 15 mg/m ³ (Dust)
	Proprietary Ingredient 3	Proprietary	NIOSH REL TWA 5.0 mg/m ³ ; ST 10 mg/m ³ (Fume)

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Grey powder
Odor	Odorless
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	1975°C
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.

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Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	5.61 g/cm ³
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
Proprietary Ingredient 2	oral	LD50 Rat: > 5,000 mg/kg

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

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Substance data: No data available.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment:

Harmful to aquatic life

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Product data: No data available.

Substance data:

Name	Result
Proprietary Ingredient 1	LC50 - Pimephales promelas: 0.012 mg/L (96 Hours)
Proprietary Ingredient 3	Oncorhynchus mykiss (rainbow trout) - 1.1 mg/l - 96.0 h
	Daphnia magna (Water flea) - 0.098 mg/l - 48 h

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Proprietary Ingredient 1	EC10: Oncorhynchus mykiss: 0.017 mg/l (217 days)

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:


It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	3077
UN proper shipping name	Environmentally Hazardous Substance, Solid, N.O.S. (Zinc Oxide, Silver)
UN transport hazard class(es)	9 
Packing group	III
Environmental hazards	Marine Pollutant

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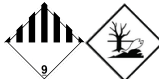
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Special precautions for user	None
EmS number	F-A, S-F
Stowage category	A
Excepted quantities	E1
Limited quantity	5 kg
Additional Information	The marine pollutant mark is not required when transported in sizes of less than 5kg.

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	3077	
UN proper shipping name	Environmentally Hazardous Substance, Solid, N.O.S. (Zinc Oxide, Silver)	
UN transport hazard class(es)	9	
Packing group	III	
Environmental hazards	Marine Pollutant	
Special precautions for user	None	
ERG code	9L	
Excepted quantities	E1	
Passenger and cargo	400 kg	
Cargo aircraft only	400 KG	
Limited quantity	30 kg G	
Additional Information	The environmentally hazardous substance mark is not required when transported in sizes of less than 5kg.	

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

Proprietary	Proprietary Ingredient 1	Listed
Proprietary	Proprietary Ingredient 2	Listed
Proprietary	Proprietary Ingredient 3	Listed

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals:

Proprietary	Proprietary Ingredient 1	Listed
Proprietary	Proprietary Ingredient 2	Listed
Proprietary	Proprietary Ingredient 3	Listed

CERCLA:

Proprietary	Proprietary Ingredient 1	Listed	1000 lbs.
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RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

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Proprietary	Proprietary Ingredient 1	Listed
Proprietary	Proprietary Ingredient 2	Listed
Proprietary	Proprietary Ingredient 3	Listed

New Jersey Right to Know:

Proprietary	Proprietary Ingredient 1	Listed
Proprietary	Proprietary Ingredient 2	Listed
Proprietary	Proprietary Ingredient 3	Listed

New York Right to Know:

Proprietary	Proprietary Ingredient 1	Listed
Proprietary	Proprietary Ingredient 2	Listed
Proprietary	Proprietary Ingredient 3	Listed

Pennsylvania Right to Know:

Proprietary	Proprietary Ingredient 1	Listed
Proprietary	Proprietary Ingredient 2	Listed
Proprietary	Proprietary Ingredient 3	Listed

California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 0-0-0

HMIS: 0-0-0

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End of Safety Data Sheet