



Blue Micro-B-Gone Biocide

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/28/2018

*** DRAFT ***

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Blue Micro-B-Gone Biocide
Product code : BDMBG16; BDMBG32

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fuel system biocide

1.3. Details of the supplier of the safety data sheet

Old World Industries, LLC
3100 Sanders Road
Northbrook, IL 60062 - USA
T (847) 559-2000
www.oldworldind.com

1.4. Emergency telephone number

Emergency number : 800 424 9300; 00 1 703 527 3887 (International)
Chemtrec

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin corrosion/irritation, Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage
Skin sensitisation, Category 1	H317	May cause an allergic skin reaction
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411	Toxic to aquatic life with long lasting effects

Full text of H statements : see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS05

GHS07

GHS09

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) : P261 - Avoid breathing mist, vapors
P264 - Wash affected areas thoroughly after handling
P272 - Contaminated work clothing must not be allowed out of the workplace
P273 - Avoid release to the environment
P280 - Wear protective gloves, protective clothing, eye protection
P302+P352 - If on skin: Wash with plenty of soap, 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
P310 - Immediately call a doctor/physician or poison center
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P391 - Collect spillage
P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local/regional/national/international regulations

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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% by wt	GHS-US classification
Inert (Non-Hazardous) Ingredients	(CAS-No.) -	98.61	Not classified
5-Chloro-2-methyl-4-isothiazol-3-one (CMIT)	(CAS-No.) 26172-55-4	1.03	Not classified
2-Methyl-4isothiazol-3-one (MIT)	(CAS-No.) 2682-20-4	0.36	Not classified

Full text of hazard classes and H-statements : see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. If not breathing, give artificial respiration.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash with plenty of soap and water. If skin irritation or rash occurs: Seek immediate medical advice. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : May cause an allergic skin reaction. Inhalation of mists may cause severe irritation of the nose, throat and upper respiratory tract. High concentrations may cause pulmonary edema.
- Symptoms/effects after skin contact : Causes severe burns. Causes skin irritation. May be harmful if absorbed through skin.
- Symptoms/effects after eye contact : Causes serious eye damage.
- Symptoms/effects after ingestion : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Nausea. Vomiting. Abdominal pain. Shock.
- Chronic symptoms : Prolonged inhalation may cause lung damage. Prolonged or repeated exposure can cause central nervous system depression, nausea, headache and vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Seek immediate medical advice. after contact and/or ingestion.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Reactivity : Reacts with (strong) oxidizers.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves). Wear positive pressure self-contained breathing apparatus (SCBA).

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Absorb spillage to prevent material damage. Avoid breathing vapors, mist.

6.1.1. For non-emergency personnel

Protective equipment : Large spills: charcoal filter respirator.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Large spills: charcoal filter respirator.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Clean spill residue area with a freshly prepared solution of 5% sodium bicarbonate and 5% sodium hypochlorite (bleach) in water to deactivate residual. Apply solution to the spill area at a ratio of 10 volumes deactivation solution per estimated volume of residual spill to deactivate any residual active ingredient. Let stand for 30 minutes. Flush the spill area with copious amounts of water to chemical sewer (if in accordance with local procedures, permits and regulations). DO NOT add solution to absorbent solids or collected liquid spill.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors.

Hygiene measures : Wash affected areas thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use.

Incompatible products : Amines. Mercaptans. Strong oxidizing agents. Reducing agents.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : 1 - 55 °C (34 °F - 131 °F)

Special rules on packaging : CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Emptied containers may retain product residue follow all SDS and label warnings even after container is empty. Shelf life is based on retention of >95% actives during storage at 20 °C - 25 °C (68 °F - 77 °F).

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

5-Chloro-2-methyl-4-isothiazol-3-one (CMIT) (26172-55-4)

Not applicable

2-Methyl-4isothiazol-3-one (MIT) (2682-20-4)

Not applicable

Inert (Non-Hazardous) Ingredients (-)

Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide a good standard of controlled ventilation (10 air changes per hour). Provide local exhaust or general room ventilation.

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Safety glasses. Protective clothing. High gas/vapor concentration: gas mask.

Materials for protective clothing:

butyl rubber. nitrile rubber

Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or face shield

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

If exposed to levels above exposure limits wear appropriate respiratory protection.



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Colorless Yellow
Odor	: odorless
Odor threshold	: No data available
pH	: 4.4
Relative evaporation rate (butylacetate=1)	: < 1
Freezing point	: No data available
Boiling point	: 229 °C (444.2 °F)
Flash point	: 138 °C (280.4 °F)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 0.06 mm Hg (solvent)
Relative vapor density at 20 °C	: > 1
Specific Gravity	: 1.06 @ 25 °C (77 °F)
Solubility	: Soluble in water. Water: Complete
Log Pow	: 0.401 measured CMIT; -0.486 measured MIT
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 97.8 mPa.s @ 25 °C (77 °F)
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

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9.2. Other information

Other properties : No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with (strong) oxidizers.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur. Reaction with strong oxidizers may generate heat.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Above a temperature of 25 °C (77 °F).

10.5. Incompatible materials

Amines. Mercaptans. Reducing agents. Strong oxidizing agents.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapors. Chlorine. Hydrogen chloride. Nitrogen oxides. Sulfur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Blue Micro-B-Gone Biocide	
LD50 oral rat	3600 mg/kg
LD50 dermal rabbit	3500 mg/kg
ATE US (oral)	3600 mg/kg bodyweight
ATE US (dermal)	3500 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.

pH: 4.4

Serious eye damage/irritation : Causes serious eye damage.

pH: 4.4

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects after inhalation : May cause an allergic skin reaction. Inhalation of mists may cause severe irritation of the nose, throat and upper respiratory tract. High concentrations may cause pulmonary edema.

Symptoms/effects after skin contact : Causes severe burns. Causes skin irritation. May be harmful if absorbed through skin.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Nausea. Vomiting. Abdominal pain. Shock.

Chronic symptoms : Prolonged inhalation may cause lung damage. Prolonged or repeated exposure can cause central nervous system depression, nausea, headache and vomiting.

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : This chemical is toxic to aquatic plants, fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waste.

5-Chloro-2-methyl-4-isothiazol-3-one (CMIT) (26172-55-4)	
LC50 fish 1	0.07 mg/l 96 Hour
EC50 Daphnia 1	0.13 mg/l Daphnia magna
LC50 fish 2	1.60 mg/l Rainbow trout (oncorhynchus mykiss) 96 Hour OECD Test Guideline 203 or Equivalent
EC50 Daphnia 2	4.71 mg/l 48 Hour OECD Test Guideline 202 or Equivalent
ErC50 (algae)	0.31 mg/l Algae 120 Hour OECD Test Guideline 201 or Equivalent

2-Methyl-4isothiazol-3-one (MIT) (2682-20-4)	
LC50 fish 1	4.77 mg/l Rainbow trout (Oncorhynchus mykiss) 96 Hour OECD Test Guideline 203 or Equivalent
LC50 other aquatic organisms 1	0.85 mg/l Daphnia magna (Water flea) 48 Hour
EC50 other aquatic organisms 1	0.14 mg/l Algae (Selenastrum Capricornutum) 96 Hour
EC50 Daphnia 2	0.18 mg/l Daphnia magna (Water flea) 48 Hour

12.2. Persistence and degradability

5-Chloro-2-methyl-4-isothiazol-3-one (CMIT) (26172-55-4)	
Persistence and degradability	OECD Test Guideline 302B or Equivalent, 98%, 10-day Window: Pass.

2-Methyl-4isothiazol-3-one (MIT) (2682-20-4)	
Persistence and degradability	Biodegradability Simulation Study, 98%. According to the results of tests of biodegradability this product is considered as being readily biodegradable.

12.3. Bioaccumulative potential

Blue Micro-B-Gone Biocide	
Log Pow	0.401 measured CMIT; -0.486 measured MIT
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

Blue Micro-B-Gone Biocide	
Ecology - soil	No additional data available.

12.5. Other adverse effects

Other information : No other effects known. Avoid release to the environment.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product/Packaging disposal recommendations : Dispose of contents/container to appropriate waste disposal facility, in accordance with local/regional/national/international regulations. **PESTICIDE DISPOSAL:** Pesticide wastes may be hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. **CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. [For containers 5 gallons or less:] Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into the fuel system and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with fuel and recap. Shake for 10 seconds. Pour rinsate into the fuel system. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer container for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. [For containers larger than 5 gallons:] Completely empty the remaining contents into the fuel system. Recap the container then offer empty container to a Hazardous Waste Disposal Facility for reconditioning or recycling.
- Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Refer to current TDG Canada for further Canadian regulations

Transport by sea

In accordance with IMDG / IMO

- Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (5-Chloro-2methyl-4-isothiazolin-3-one), 9, III
- UN-No. (IMDG) : 3082
- Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (5-Chloro-2methyl-4-isothiazolin-3-one)
- Class (IMDG) : 9 - Miscellaneous dangerous substances and articles
- Packing group (IMDG) : III - substances presenting low danger
- Marine pollutant : Yes



Air transport

In accordance with IATA / ICAO

- Transport document description (IATA) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (5-Chloro-2methyl-4-isothiazolin-3-one), 9, III
- UN-No. (IATA) : 3082
- Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (5-Chloro-2methyl-4-isothiazolin-3-one)
- Class (IATA) : 9 - Miscellaneous Dangerous Goods
- Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

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15.1. US Federal regulations

Blue Micro-B-Gone Biocide	
EPA TSCA Regulatory Flag	This product is a registered pesticide and not subject to TSCA.
CERCLA RQ	None
SARA Section 302 Threshold Planning Quantity (TPQ)	None
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Magnesium nitrate 10377-60-3
5-Chloro-2-methyl-4-isothiazol-3-one (CMIT) (26172-55-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	P - P - indicates a commenced PMN (premanufacture notice) substance. S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule.
2-Methyl-4-isothiazol-3-one (MIT) (2682-20-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	P - P - indicates a commenced PMN (premanufacture notice) substance. S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule.

15.2. International regulations

CANADA

Blue Micro-B-Gone Biocide	
WHMIS Classification	This product is subject to regulation under the Canadian Pest Control Products Act (P.C.P. Act). Therefore, this product is excluded from the supplier labelling and material safety data sheet requirements as specified in Section 12 of the Hazardous Product Act.

EU-Regulations

No additional information available

National regulations

Blue Micro-B-Gone Biocide	
<p>This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.</p>	
<p>DANGER CORROSIVE CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS HARMFUL IF SWALLOWED OR ABSORBED THROUGH THE SKIN HARMFUL IF INHALED CAUSES SKIN IRRITATION</p>	
<p>This product is EPA Registered - EPA Registration No. 65597-1</p>	

15.3. US State regulations

California Proposition 65 - This product does not contain any substance(s) known to the state of California to cause cancer, developmental toxicity and/or reproductive toxicity

SECTION 16: Other information

Revision date : 02/28/2018
Other information : None.

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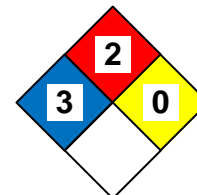
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Full text of H-statements:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H411	Toxic to aquatic life with long lasting effects

- NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
- NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

- Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
- Flammability : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 °F (37 °C) but below 200 °F (93 °C). (Classes II & IIIA)
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS GHS US (GHS HazCom 2012) OWI

Old World Industries, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, LLC as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Old World Industries, LLC assume liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.