



# SAFETY DATA SHEET

Nutrition & Biosciences USA 2, LLC

**Product name:** KATHON™ PFM Biocide

**Issue Date:** 10/16/2018

**Print Date:** 04/30/2021

Nutrition & Biosciences USA 2, LLC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

## 1. IDENTIFICATION

**Product name:** KATHON™ PFM Biocide

**Recommended use of the chemical and restrictions on use**

**Identified uses:** Biocidal product

### COMPANY IDENTIFICATION

Nutrition & Biosciences USA 2, LLC  
3490 Winton Place  
Rochester NY 14623  
UNITED STATES

**Customer Information Number:**

1-800-526-3649

SDS.ENABLERS@iff.com

### EMERGENCY TELEPHONE NUMBER

**24-Hour Emergency Contact:** 1-800-424-9300

**Local Emergency Contact:** 800-424-9300

## 2. HAZARDS IDENTIFICATION

### Hazard classification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Skin corrosion - Category 1B

Serious eye damage - Category 1

Skin sensitisation - Category 1

### Label elements

**Hazard pictograms**



Signal word: **DANGER!**

**Hazards**

Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.

**Precautionary statements****Prevention**

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Wash contaminated clothing before reuse.

**Storage**

Store locked up.

**Disposal**

Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

No data available

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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**Chemical nature:** Aqueous solution of organic and inorganic compounds  
This product is a mixture.

Component	CASRN	Concentration
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	>= 1.1 - 1.4 %
Methyl-4-isothiazolin-3-one	2682-20-4	>= 0.3 - 0.5 %
Magnesium Chloride	7786-30-3	>= 1.0 - 1.2 %
Magnesium dinitrate	10377-60-3	>= 1.4 - 2.0 %
Copper (II) nitrate	3251-23-8	>= 1,500.0 - 1,700.0

PPM

Water

7732-18-5

&gt;= 95.0 - 97.0 %

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## 4. FIRST AID MEASURES

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**Description of first aid measures**

**Inhalation:** Move to fresh air. Give artificial respiration if breathing has stopped. If symptoms persist, call a physician.

**Skin contact:** IMMEDIATELY get under a safety shower. Remove contaminated clothing. Wash off with soap and water. Immediate medical attention is required. Wash contaminated clothing before re-use. Do not take clothing home to be laundered. Discard contaminated shoes, belts, and other articles made of leather.

**Eye contact:** Rinse immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

**Ingestion:** Drink 1 or 2 glasses of water. IMMEDIATELY see a physician. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:** Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

**Indication of any immediate medical attention and special treatment needed**

**Notes to physician:** MATERIAL IS CORROSIVE. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock and convulsions maybe necessary.

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## 5. FIREFIGHTING MEASURES

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**Suitable extinguishing media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable extinguishing media:** No data available

**Special hazards arising from the substance or mixture**

**Hazardous combustion products:** No data available

**Unusual Fire and Explosion Hazards:** Combustion generates toxic fumes of the following: hydrogen chloride Nitrogen oxides (NOx) sulfur oxides

**Advice for firefighters**

**Fire Fighting Procedures:** Cool containers/tanks with water spray. Minimize exposure. Do not breathe fumes. Contain run-off.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective suit.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Personal precautions, protective equipment and emergency procedures:** Wear a NIOSH approved (or equivalent) respirator (with organic vapor/acid gas cartridge and a dust/mist filter) during spill clean-ups and deactivation of this material. MATERIAL IS CORROSIVE. Protective clothing, including chemical splash goggles, nitrile or butyl rubber full length gloves, rubber apron, or clothing made of nitrile or butyl rubber, and rubber overshoes must be worn during spill clean-ups and deactivation of this material. If material comes in contact with the skin during clean-up operations, IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water. See SECTION 4, First Aid Measures, for further information.

**Environmental precautions:** Do not allow material to contaminate ground water system. Prevent product from entering drains.

**Methods and materials for containment and cleaning up:** WARNING: KEEP SPILLS AND CLEAN-UP RESIDUALS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER. Adsorb the spill with spill pillows or inert solids such as clay or vermiculite, and transfer contaminated materials to suitable containers for disposal. Deactivate spill area with freshly prepared solution of 5% sodium bicarbonate and 5% sodium hypochlorite in water. 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 deactivation solution to the waste pail to deactivate the adsorbed material. See Section 13, "Disposal Considerations", for information regarding the disposal of contained materials.

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## 7. HANDLING AND STORAGE

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**Precautions for safe handling:** This material is corrosive. For personal protection see section 8. Do not handle material near food, feed or drinking water.

**Conditions for safe storage:** Keep in a well-ventilated place. The product as supplied may evolve gas (largely carbon dioxide) slowly. To prevent the buildup of pressure the product is packaged in specially vented containers, where necessary. Keep this product in the original container when not in use. Container must be stored and transported in an upright position to prevent spilling the contents through the vent, where fitted. Do not store this material in containers made of the following: steel Do not store this material near food, feed or drinking water. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all (M)SDS and label warnings even after container is emptied. Expiration date based only on retention of >95% actives during storage at 20°C-25°C (68°F-77°F).

**Storage stability**

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

**Other data:** Store in a cool and shaded area.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Control parameters**

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
5-Chloro-2-methyl-4-isothiazolin-3-one	Dow IHG	TWA	0.075 mg/m <sup>3</sup>

Methyl-4-isothiazolin-3-one	Dow IHG	STEL	0.23 mg/m3
	Dow IHG	TWA	1.5 mg/m3
	Dow IHG	STEL	4.5 mg/m3

**Exposure controls**

**Engineering controls:** Use local exhaust ventilation with a minimum capture velocity of 150 ft/min. (0.75 m/sec.) at the point of dust or mist evolution. Refer to the current edition of "Industrial Ventilation: A Manual of Recommended Practice" published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

**Protective measures:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Individual protection measures**

**Eye/face protection:** Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed.

**Skin protection**

**Hand protection:** Chemical-resistant gloves should be worn whenever this material is handled. The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): butyl-rubber Nitrile rubber PVC gloves >1 mm thickness Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. NOTE: Material is a possible skin sensitizer.

**Other protection:** Wear as appropriate: Chemical resistant apron complete suit protecting against chemicals

**Respiratory protection:** Typical use of this material does not result in workplace exposures that exceed the exposure limits listed in the Exposure Limit Information Section. For those special workplace conditions where the listed exposure limits are exceeded, a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed. For concentrations up to 10 times the exposure limit, wear a properly fitted NIOSH approved (or equivalent) half-mask or full facepiece air purifying respirator equipped with organic vapor cartridges and N95 filters. If oil mist is present, use R95 or P95 filters. For those unlikely situations where exposure may greatly exceed the listed exposure limits (i.e. greater than 10-fold), or in any emergency situation, wear a properly fitted NIOSH approved (or equivalent) self-contained breathing apparatus in the pressure demand mode or a full facepiece airline respirator in the pressure demand mode with emergency escape provision. See SECTION 6, Accidental Release Measures, for respirator and protective clothing requirements for spill clean-up and decontamination of this material.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance**

<b>Physical state</b>	liquid
<b>Color</b>	Light blue to light green
<b>Odor</b>	Mild, inoffensive odor
<b>Odor Threshold</b>	No data available
<b>pH</b>	2 - 4
<b>Melting point/range</b>	-3.00 °C ( 26.60 °F)

Freezing point	No data available
Boiling point (760 mmHg)	100.00 °C ( 212.00 °F)
Flash point	Noncombustible
Evaporation Rate (Butyl Acetate = 1)	<1.00
Flammability (solid, gas)	Not Applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor Pressure	No data available
Relative Vapor Density (air = 1)	0.6200
Relative Density (water = 1)	1.0200
Water solubility	completely soluble
Partition coefficient: n-octanol/water	log Pow: 0.401 <i>Method Not Specified.</i>
Auto-ignition temperature	Not Applicable
Decomposition temperature	No data available
Dynamic Viscosity	3.000 mPa.s at 25.00 °C (77.00 °F)
Kinematic Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	The substance or mixture is not classified as oxidizing.
Molecular weight	No data available
Percent volatility	95.00 - 97.00 %

NOTE: The physical data presented above are typical values and should not be construed as a specification.

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## 10. STABILITY AND REACTIVITY

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**Reactivity:** No data available

**Chemical stability:** No data available

**Possibility of hazardous reactions:** Stable under recommended storage conditions.  
Product will not undergo polymerization.

**Conditions to avoid:** No data available

**Incompatible materials:** Avoid contact with the following: Oxidizing agents Amines Reducing agents Mercaptans.

**Hazardous decomposition products:** Nitrogen oxides (NOx) Sulphur oxides hydrogen chloride

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## 11. TOXICOLOGICAL INFORMATION

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*Toxicological information appears in this section when such data is available.*

**Acute toxicity**

**Acute oral toxicity**

LD50, Rat, female, 3,310 mg/kg

LD50, Rat, male, > 5,000 mg/kg

**Acute dermal toxicity**

LD50, Rabbit, > 5,000 mg/kg

**Acute inhalation toxicity**

LC50, Rat, 4 Hour, dust/mist, > 5 mg/l Estimated.

**Skin corrosion/irritation**

This material is corrosive.

**Serious eye damage/eye irritation**

Corrosive

**Sensitization**

Has caused allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

**Specific Target Organ Systemic Toxicity (Single Exposure)**

Product test data not available. Refer to component data.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Product test data not available. Refer to component data.

**Carcinogenicity**

Did not cause cancer in laboratory animals.

**Teratogenicity**

Did not show teratogenic effects in animal experiments.

**Reproductive toxicity**

In animal studies, did not interfere with reproduction.

**Mutagenicity**

Not mutagenic when tested in bacterial or mammalian systems.

**Aspiration Hazard**

Product test data not available. Refer to component data.

**COMPONENTS INFLUENCING TOXICOLOGY:**

**5-Chloro-2-methyl-4-isothiazolin-3-one**

**Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Aspiration Hazard**

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

**Methyl-4-isothiazolin-3-one****Specific Target Organ Systemic Toxicity (Single Exposure)**

May cause respiratory irritation.

Route of Exposure: Inhalation

Target Organs: Respiratory Tract

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

**Aspiration Hazard**

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

**Magnesium Chloride****Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

**Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

**Magnesium dinitrate****Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

For similar material(s):

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Aspiration Hazard**

Based on available information, aspiration hazard could not be determined.

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**12. ECOLOGICAL INFORMATION**

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*Ecotoxicological information appears in this section when such data is available.*

**Toxicity****5-Chloro-2-methyl-4-isothiazolin-3-one****Acute toxicity to fish**



Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

LC50, *Oncorhynchus mykiss* (rainbow trout), 96 Hour, 0.19 mg/l, OECD Test Guideline 203 or Equivalent

LC50, Bluegill sunfish (*Lepomis macrochirus*), 96 Hour, 0.28 mg/l

**Acute toxicity to aquatic invertebrates**

EC50, *Daphnia magna* (Water flea), 48 Hour, 0.16 mg/l

**Acute toxicity to algae/aquatic plants**

NOEC, *Selenastrum capricornutum* (green algae), Growth rate, 0.0099 mg/l

EC50, Algae (*Selenastrum capricornutum*), 72 Hour, Growth rate, 0.018 mg/l

**Toxicity to bacteria**

EC50, Bacteria, 16 Hour, 5.7 mg/l

**Chronic toxicity to aquatic invertebrates**

NOEC, *Daphnia magna* (Water flea), 21 d, number of offspring, 0.172000 mg/l

LOEC, *Daphnia magna* (Water flea), 21 d, number of offspring, 0.572000 mg/l

**Methyl-4-isothiazolin-3-one**

**Acute toxicity to fish**

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

LC50, *Oncorhynchus mykiss* (rainbow trout), 96 Hour, 4.77 mg/l, OECD Test Guideline 203 or Equivalent

**Acute toxicity to aquatic invertebrates**

LC50, *Daphnia magna* (Water flea), 48 Hour, 0.93 - 1.9 mg/l

**Acute toxicity to algae/aquatic plants**

EC50, Algae (*Selenastrum capricornutum*), 72 Hour, Growth rate, 0.158 mg/l, OECD Test Guideline 201

**Chronic toxicity to aquatic invertebrates**

NOEC, *Daphnia magna*, 21 d, 0.04 mg/l

**Magnesium Chloride**

**Acute toxicity to fish**

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

LC50, *Gambusia affinis* (Mosquito fish), static test, 96 Hour, 16,500 mg/l, Method Not Specified.

**Acute toxicity to aquatic invertebrates**

EC50, *Daphnia magna* (Water flea), 24 Hour, 3,190 mg/l, Directive 84/449/EEC, C.2

**Acute toxicity to algae/aquatic plants**

EC50, alga *Scenedesmus* sp., 72 Hour, Biomass, 2,200 mg/l, OECD Test Guideline 201 or Equivalent

**Magnesium dinitrate**

**Acute toxicity to fish**

Not expected to be acutely toxic to aquatic organisms.

For similar material(s):  
LC50, Poecilia reticulata (guppy), 96 Hour, > 100 mg/l

**Acute toxicity to aquatic invertebrates**

For similar material(s):  
EC50, Daphnia magna, 48 Hour, > 100 mg/l

**Acute toxicity to algae/aquatic plants**

For similar material(s):  
ErC50, Algae, 72 Hour, Growth rate, > 100 mg/l

**Copper (II) nitrate****Acute toxicity to fish**

Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).

LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, 0.190 mg/l, Other guidelines

**Acute toxicity to aquatic invertebrates**

LC50, Daphnia magna, 48 Hour, 0.033 mg/l, Other guidelines

**Acute toxicity to algae/aquatic plants**

EC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, 0.035 mg/l, Other guidelines  
NOEC, Raphidocelis subcapitata (freshwater green alga), Static, 72 Hour, 0.015 - 0.164 mg/l,  
OECD Test Guideline 201

**Chronic toxicity to fish**

NOEC, Pimephales promelas (fathead minnow), flow-through, 28 d, 0.016 mg/l

**Chronic toxicity to aquatic invertebrates**

NOEC, Other, semi-static test, 27 d, 0.021 mg/l

**Persistence and degradability****5-Chloro-2-methyl-4-isothiazolin-3-one**

**Biodegradability:** Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

10-day Window: Not applicable

**Biodegradation:** 98 %

**Exposure time:** 2 d

**Method:** OECD Test Guideline 302B or Equivalent

**Methyl-4-isothiazolin-3-one**

**Biodegradability:** Material is expected to be readily biodegradable.

**Biodegradation:** 98 %

**Exposure time:** 48 d

**Method:** Simulation study

**Magnesium Chloride**

**Biodegradability:** Biodegradation is not applicable.

**Magnesium dinitrate**

**Biodegradability:** No relevant data found.

**Copper (II) nitrate**

**Biodegradability:** Material is expected to be readily biodegradable.

**Bioaccumulative potential**

**Partition coefficient: n-octanol/water(log Pow):** 0.401 Method Not Specified.

**Mobility in soil****5-Chloro-2-methyl-4-isothiazolin-3-one**

No relevant data found.

**Methyl-4-isothiazolin-3-one**

No relevant data found.

**Magnesium Chloride**

Potential for mobility in soil is very high (Koc between 0 and 50).

**Partition coefficient (Koc):** 23.7

**Magnesium dinitrate**

Potential for mobility in soil is very high (Koc between 0 and 50).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

**Partition coefficient (Koc):** 24

**Copper (II) nitrate**

No relevant data found.

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**13. DISPOSAL CONSIDERATIONS**

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**Disposal methods:** Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations. (See 40 CFR 268)

**Contaminated packaging:** Empty containers retain product residues. Follow label warnings even after container is emptied. Improper disposal or reuse of this container may be dangerous and illegal. Refer to applicable federal, state and local regulations.

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**14. TRANSPORT INFORMATION**

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**DOT**

<b>Proper shipping name</b>	Corrosive liquid, acidic, organic, n.o.s.(5-Chloro-2-methyl-4-isothiazolin-3-one)
<b>UN number</b>	UN 3265
<b>Class</b>	8
<b>Packing group</b>	II

**Classification for SEA transport (IMO-IMDG):**

<b>Proper shipping name</b>	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(5-Chloro-2-methyl-4-isothiazolin-3-one)
<b>UN number</b>	UN 3265

<b>Class</b>	8
<b>Packing group</b>	II
<b>Marine pollutant</b>	No
<b>Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code</b>	Consult IMO regulations before transporting ocean bulk

**Classification for AIR transport (IATA/ICAO):**

<b>Proper shipping name</b>	Corrosive liquid, acidic, organic, n.o.s.(5-Chloro-2-methyl-4-isothiazolin-3-one)
<b>UN number</b>	UN 3265
<b>Class</b>	8
<b>Packing group</b>	II

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

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## 15. REGULATORY INFORMATION

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**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312**

Acute Health Hazard

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313**

This product contains a chemical which is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: (Quantity present is found elsewhere on this MSDS.)

**Components**

Magnesium nitrate (10377-60-3) as nitrate compound

**CASRN**

10377-60-3

**Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103**

This material is regulated under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. This material is or contains chemical(s) listed in 40 CFR Table 302.4 or nondesignated RCRA ICR substance(s). (Nondesignated ICR substances apply to materials that will not be reused.) The Reportable Quantity(s) (RQ) are listed below. Releases in excess of its reportable quantity must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations.

D002, 100lbs.

Not to be sold or handed over to persons under 18 years of age.

**United States TSCA Inventory (TSCA)**

This product contains chemical substance(s) exempt from U.S. EPA TSCA Inventory requirements. It is regulated as a pesticide subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) requirements.

**Federal Insecticide, Fungicide and Rodenticide Act**

EPA Registration Number: 707-209

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**DANGER**

Corrosive

Causes irreversible eye damage and skin burns

May cause allergic skin reaction

Harmful if inhaled

Harmful if swallowed or absorbed through the skin

This chemical is toxic to aquatic plants, fish and aquatic invertebrates.

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**16. OTHER INFORMATION**

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**Hazard Rating System****HMIS**

Health	Flammability	Physical Hazard
3	0	0

**Revision**

Identification Number: 101079766 / A746 / Issue Date: 10/16/2018 / Version: 3.1

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

**Legend**

Dow IHG	Dow Industrial Hygiene Guideline
STEL	Short term exposure limit
TWA	Time weighted average

**Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

Nutrition & Biosciences USA 2, LLC urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here

pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.