

## Chemical Safety Data Sheet MSDS / SDS

## Fumonisin B1-13C34 solution

Revision Date:2026-03-21 Revision Number:1

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

## Product identifier

Product name : Fumonisin B1-13C34 solution  
CBnumber : CB12100132  
CAS : 1217458-62-2  
EINECS Number : 808-555-8  
Synonyms : U{13C34}-Fumonisin B1

## Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

## Company Identification

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

## SECTION 2: Hazards identification

## GHS Label elements, including precautionary statements

Symbol(GHS)



Signal word

Danger

## Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continuerinsing.

## Hazard statements

H225 Highly Flammable liquid and vapour

H319 Causes serious eye irritation

## SECTION 3: Composition/information on ingredients

## Substance

|              |                               |
|--------------|-------------------------------|
| Product name | : Fumonisin B1-13C34 solution |
| Synonyms     | : U{13C34}-Fumonisin B1       |
| CAS          | : 1217458-62-2                |
| EC number    | : 808-555-8                   |
| MF           | : C34H59NO15                  |
| MW           | : 755.58                      |

---

## SECTION 4: First aid measures

### First Aid Measures

#### General advice

If symptoms persist, call a physician.

#### Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

#### Skin Contact

Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

#### Inhalation

Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

#### Ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. Do NOT induce vomiting.

#### Self-protection of the first aider

Use personal protective equipment as required.

### Most important symptoms and effects, both acute and delayed

#### Symptoms

No information available.

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

#### Note to physicians

Treat symptomatically.

---

## SECTION 5: Firefighting measures

### Suitable Extinguishing Media

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

No information available.

**Specific hazards arising from the chemical****Specific hazards arising from the chemical**

flammable.

**Hazardous combustion products**

Carbon oxides. Nitrogen oxides (NO<sub>x</sub>).

**Explosion data****Sensitivity to Mechanical Impact**

No information available.

**Sensitivity to Static Discharge**

No information available.

**Protective equipment and precautions for firefighters****Protective equipment and precautions for firefighters**

As in any fire, wear self contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

---

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures****Personal precautions**

Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Environmental precautions****Environmental precautions**

See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**Methods and material for containment and cleaning up****Methods for containment**

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers.

---

## SECTION 7: Handling and storage

**Precautions for safe handling****Advice on safe handling**

Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

## Conditions for safe storage, including any incompatibilities

### Storage Conditions

Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store at -20 °C.

### Incompatible materials

None known based on information supplied.

---

## SECTION 8: Exposure controls/personal protection

### Control parameters

#### Exposure Guidelines

.

#### Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

| Column 1                | Column 2          | Column 3                                                                                                                                                                             | Column 4                                                              |
|-------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Acetonitrile<br>75-05-8 | TWA: 20 ppm<br>S* | TWA: 40 ppm<br>TWA: 70 mg/m3 TWA: 5 mg/m3<br>CN (vacated) TWA: 40 ppm (vacated) TWA: 70 mg/m3 (vacated) TWA: 5 mg/m3 (vacated)<br>STEL: 60 ppm (vacated) STEL: 105 mg/m3<br>S* as CN | IDLH: 137 ppm IDLH:<br>25 mg/m3<br>CN<br>TWA: 20 ppm<br>TWA: 34 mg/m3 |

NIOSH IDLH Immediately Dangerous to Life or Health

### Appropriate engineering controls

#### Engineering Controls

Showers

Eyewash stations

Ventilation systems

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Tight sealing safety goggles. Face protection shield.

#### Skin and Body Protection

Wear protective gloves and protective clothing.

#### Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

#### General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

---

## SECTION 9: Physical and chemical properties

## Information on basic physicochemical properties

|                                 |                                                                        |
|---------------------------------|------------------------------------------------------------------------|
| Physical State                  | liquid                                                                 |
| Appearance                      | No information available                                               |
| Odor                            | No information available                                               |
| pH                              | No information available                                               |
| Melting point/freezing point    | No information available                                               |
| Boiling point                   | 84 °C                                                                  |
| Flash point                     | 2 °C                                                                   |
| Liquid Density                  | No information available                                               |
| Evaporation rate                | No information available                                               |
| Upper flammability limits       | No information available                                               |
| Lower flammability limit        | No information available                                               |
| Vapor pressure                  | No information available                                               |
| Vapor density                   | No information available                                               |
| Specific gravity                | No information available                                               |
| Water solubility                | No information available                                               |
| Solubility in other solvents    | No information available                                               |
| Partition coefficient           | No information available                                               |
| Autoignition temperature        | No information available                                               |
| Decomposition temperature       | No information available                                               |
| Kinematic viscosity             | No information available                                               |
| Explosive properties            | No information available                                               |
| Oxidizing properties            | No information available                                               |
| Density and/or relative density | 1.255±0.06 g/cm <sup>3</sup> (Temp: 25 °C; Press: 760 Torr)(predicted) |
| Solubility                      | Acetonitrile:Water (1:1): soluble                                      |

## SECTION 10: Stability and reactivity

### Reactivity

Not applicable

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous polymerization

No information available.

### Conditions to avoid

Extremes of temperature and direct sunlight.

### **Incompatible materials**

Strong oxidizing agents.

### **Hazardous Decomposition Products**

Carbon oxides. Nitrogen oxides (NO<sub>x</sub>).

---

## **SECTION 11: Toxicological information**

### **Information on likely routes of exposure**

#### **Inhalation**

Classified based on available data. For more details, see section 2.

#### **Eye contact**

Classified based on available data. For more details, see section 2.

#### **Skin Contact**

Classified based on available data. For more details, see section 2.

#### **Ingestion**

Classified based on available data. For more details, see section 2.

### **Information on toxicological effects**

#### **Symptoms**

Classified based on available data. For more details, see section 2.

### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

#### **Chronic Toxicity**

May cause adverse liver effects. Avoid repeated exposure. Target Organ Effects Central Vascular System (CVS), Central nervous system, Respiratory system, Kidney, Liver.

### **Numerical measures of toxicity - Product Information**

#### **Unknown acute toxicity**

Classified based on available data. For more details, see section 2

The following values are calculated based on chapter 3.1 of the GHS document

#### **ATEmix (oral)**

1136 mg/kg

#### **ATEmix (dermal)**

2500 mg/kg

#### **ATEmix (inhalation-dust/mist)**

3.4 mg/l

---

## **SECTION 12: Ecological information**

### **Ecotoxicity**

May cause long lasting harmful effects to aquatic life

| Chemical name        | Algae/aquatic plants | Fish                                                                                                                                                                    | Toxicity to Microorganisms | Crustacea                          |
|----------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------|
| Acetonitrile 75-05-8 |                      | 1000: 96 h Pimephales promelas mg/L LC50 static 1600 - 1690: 96 h Pimephales promelas mg/L LC50 flow-through 1850: 96 h Lepomis macrochirus mg/L LC50 static 1650: 96 h |                            | 5838: 18 h Daphnia pulex mg/L EC50 |
|                      |                      | Poecilia reticulata mg/L LC50 static                                                                                                                                    |                            |                                    |

0.02% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

#### Acetonitrile -

1000: 96 h Pimephales - 5838: 18 h Daphnia pulex

#### Persistence and degradability

No information available.

#### Bioaccumulation

No information available.

#### Mobility

No information available.

#### Acetonitrile

-0.34 75-05-8

---

## SECTION 13: Disposal considerations

#### Disposal of wastes

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

#### Contaminated packaging

Do not reuse container.

#### US EPA Waste Number

D001

#### California Hazardous Waste Status

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical name        | California Hazardous Waste Status |
|----------------------|-----------------------------------|
| Acetonitrile 75-05-8 | Toxic<br>Ignitable                |

## Acetonitrile

Toxic

---

## SECTION 14: Transport information

### DOT

**UN/ID no**

UN1648

**Hazard Class**

3

**Packing Group**

II

**Proper shipping name**

Acetonitrile solution Reportable Quantity (RQ) (Acetonitrile: RQ (kg)= 2270.00)

**Description**

UN1648, Acetonitrile solution, 3, II, Marine pollutant Marine pollutant This product contains a chemical which is listed as a marine pollutant according to DOT

**Emergency Response Guide Number**

127

### IMDG

**UN/ID no**

UN1648

**Hazard Class**

3

**Packing Group**

II

**Proper shipping name**

Acetonitrile solution

**Description**

UN1648, Acetonitrile solution, 3, II, (2°C c.c.)

**EmS-No**

F-E, S-D

### IATA

**UN/ID no**

UN1648

**Hazard Class**

3

**Packing Group**

II

**Proper shipping name**

Acetonitrile solution

**Description**

UN1648, Acetonitrile solution, 3, II

**ERG Code**

3L

---

## SECTION 15: Regulatory information

**International Inventories**

All of the components in the product are on the following Inventory lists

X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

| Chemical name | TSCA | DSL | NDL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---------------|------|-----|-----|--------|--------|------|-------|------|-------|------|
| Water         | X    | X   | -   | X      | -      | -    | X     | X    | X     | X    |
| Acetonitrile  | X    | X   | -   | X      | -      | X    | X     | X    | X     | X    |

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories****Acute health hazard**

Yes

**Chronic Health Hazard**

No

**Fire hazard**

Yes

**Sudden release of pressure hazard**

No

**Reactive hazard**

No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

|  | CWA - Reportable | CWA - Hazardous |
|--|------------------|-----------------|
|--|------------------|-----------------|

| Chemical name        | Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | Substances |
|----------------------|------------|------------------------|---------------------------|------------|
| Acetonitrile 75-05-8 |            | X                      | X                         |            |

## US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

| Chemical name        | New Jersey | Massachusetts | Pennsylvania |
|----------------------|------------|---------------|--------------|
| Acetonitrile 75-05-8 | X          | X             | X            |

## SECTION 16: Other information

### Abbreviations and acronyms

CAS: Chemical Abstracts Service

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

EC50: Effective Concentration 50%

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

DOT: US Department of Transportation

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

#### Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.