



Safety Data Sheet: **Moniliformin | Fermentek**

1. Identification of the substance and of the Company

Product identifiers

Product Code: **MO**
Product name: **Moniliformin | Fermentek**
CAS #: **71376-34-6**
EC/ REACH Number

Intended uses of the substance or mixture and uses advised against

Intended use: **Only For Research and/or Development**
Uses advised against: Not for drug,
Not to be used in humans or animals.
Not food additive.

Details of the manufacturer and supplier of the safety data sheet

Company: **FERMENTEK**
4 Yatziv street, POB 47120
Jerusalem 97800, Israel
Tel: +972 2 5853953
Fax: +972 2 5853943
eMail: fermentek@fermentek.com
Website: www.fermentek.com

This company is the manufacturer of the product, and the supplier of the safety data sheet

Emergency Telephone number

For chemical emergency spill, leak, fire, exposure, or accident calls CHEMTREC day or night:
Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887

REACH

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.



2. Hazards identification

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute Toxicity, Oral (Category 3) H301: Toxic if swallowed.

GHS Label elements, including precautionary statements



Pictogram: Signal word: {DANGER}

GHS Hazard Statements

H301 H301: Toxic if swallowed.

GHS Precautionary Statements

P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see supplemental first aid instructions on this label).
P330 Rinse mouth.

Unclassified Hazards/Hazards Not Otherwise Classified

No data available

3. Composition/information on ingredients

Substance

Molecular Formula: NaC_4HO_3
Molecular Weight: 120
CAS Registry #: 71376-34-6
EC#: Not assigned.

Synonyms

Mixture

Not mixture. This product is a pure compound

4. First Aid Measures

General advice	Consult a doctor, as medical attention may be required. If symptoms persist, call a physician.
Eye contact:	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:	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Inhalation:	If inhaled, , move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Self-protection of the first aider:	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination
Most important symptoms:	No information available.



5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, Sodium oxides or salts.

Advice for firefighters

Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit

Further information

No data available

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions

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. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up:

Cover liquid spill with sand, earth or other non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, and vermiculite). Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.

7. Handling and storage

Precautions for safe handling

Advice on safe handling:

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place.
Keep out of the reach of children.
Store at -20 °C.

Incompatible materials:

None known based on information available.

8. Exposure Controls/Personal Protection

Control parameters

No occupational exposure limits are listed for this material.

OSHA Permissible Exposure Limits No Data Available

NIOSH Recommended Exposure Limits No Data Available

ACGIH Threshold Limit Values No Data Available

Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use fumehood for routine work.

Personal protective equipment

The employer/end user, prior to use of this product should perform all recommendations below are advisory in nature and a risk assessment. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

[PPE=Personal Protection Equipment]

PPE: Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator



cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

PPE: Hand Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands

PPE: Eye Protection: Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

PPE: Skin and Body Protection: Handle with gloves. Wear protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place. When deemed needed according to the concentration and amount of this product, use a complete body suit

9. Physical and chemical properties

Physical / chemical properties

Physical State at room temperature	crystalline solid
Color	yellow
Melting/freezing point	Decomposes at 340°C-356°C without melting

No further safety-relevant information is available

10. Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks
Incompatible materials	Strong reducers and oxidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products:	Carbon monoxide CO, Carbon dioxide (CO ₂), Sodium salts

11. Toxicological information

Information on toxicological effects

Acute Toxicity	LD50 (oral - rat) 50 mg/kg (computed from Moniliformin data)
Germ cell mutagenicity:	no data available
Carcinogenicity:	no data available
Reproductive toxicity / Teratogenicity:	no data available
STOT-SE – single exposure (GHS):	no data available
STOT-RE – repeated exposure (GHS):	no data available
Aspiration hazard:	no data available
Potential Health Effects	no data available
Additional information:	RTECS: GU1815000

12. Ecological Information

Eco-Toxicity	No further relevant information available
Other adverse effects	No further relevant information available.

13. Disposal Considerations

Waste treatment methods	
Waste from residues/unused products	Dispose of in accordance with local regulations
Contaminated packaging	Dispose of as unused product



14. Transport information

UN number, Proper Shipping Name, Transport Hazard Class, packing group

	US DOT	ADR/RID:	IMDG:	IATA
UN Number	UN 2811 - Toxic solid,			
UN proper shipping name	organic, n.o.s. (Moniliformin Sodium)	organic, n.o.s. (Moniliformin Sodium)	organic, n.o.s. (Moniliformin Sodium)	organic, n.o.s. (Moniliformin Sodium)
Transport Hazard Class & Packing Group	Class 6.1 pg li			

15. Regulatory information

Safety, health and environmental regulations/legislation

USA EPA / TSCA:	This product is not listed on the USA EPA TSCA
EU ECHA Status:	This product is not registered with the EU ECHA
SARA 302 Components	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
CA: DSL/NDSL Status:	This product is not listed on the Canadian DSL/NDSL
SARA 313 Components	SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	Acute Health Hazard
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16: Other information

Date of revision: 06 dec 2016

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release 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 or in any process, unless specified in the text.

End of SDS

