

Safety Data Sheet(SDS)

I. PRODUCT AND COMPANY IDENTIFICATION

- Contraction	EL
Product Name:	Moniliformin (sodium salt)
Product Catalog Number:	C4459
CAS Number:	71376-34-6
Company:	APExBIO Technology 7505 Fannin street, Suite 410, Houston, TX 77054, USA +1-832-696-8203 TEL +1-832-641-3177 FAX +1-855-577-7998 EMERGENCY PHONE
II. HAZARDS IDENTIFICATION	

Emergency Overview

OSHA Hazards:



Flammable liquids(Category 2),H225 Acute toxicity,oral(Category 3),H301 Acute toxicity,oral(Category 4),H302 Acute toxicity,dermal(Category 4),H312 Serious eye damage/eye irritation(Category 2A),H319 Acute toxicity,inhalation(Category 4),H332

III. COMPOSITION/DATA ON COMPONENTS

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After Inhalation:

After skin contact:

After eye contact:

After swallowing:

If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration.

Flush with copious amounts of water; remove contaminated clothing and shoes; call a physician; Take victim to hospital immediately; call a physician.

Check for and remove contact lenses and flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician.

If swallowed, wash out mouth with copious amounts of water; call a physician

V. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Special protective equipment for firefighters:

Hazardous combustion products:

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

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides.

VI. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Environmental precautions:

Methods and materials for containment and cleaning up:

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas.

Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

VII. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage:



Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: Store at 4°C Keep in a dry place.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment as follows:

Respiratory protection:





Eye protection:

Skin and body protection:

Hygiene measures:

Contains no substances with occupational exposure limit values.

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (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).

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

General industrial hygiene practice.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- a) Appearance
- b) Odour
- c) Odour Threshold
- d) pH
- e) Melting point/freezing point
- f) Initial boiling point and
- boiling range
- g) Flash point
- h) Evaporation rate
- i) Flammability (solid, gas)
- j) Upper/lower flammability or
- explosive limits
- k) Vapour pressure
- I) Vapour density
- m) Relative density
- n) Water solubility
- o) Partition coefficient
- p) Auto-ignition temperature
- q) Decomposition temperature
- r) Viscosity
- s) Explosive properties
- t) Oxidizing properties
- Other safety information

- No data available No data available
- No data available No data available No data available No data available
- No data available No data available









No data available

X. STABILITY AND REACTIVITY

Chemical stability:

Possibility of hazardous reactions:

Conditions to avoid:

Materials to avoid:

Stable under recommended storage conditions.

No data available.

No data available.

Strong acids, Strong bases.

XI. TOXICOLOGICAL INFORMATION



No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

XII. ECOLOGICAL INFORMATION

General notes:

Blow

No data available.



XIII. DISPOSAL CONSIDERATION

General notes:

Dispose of in accordance with prevailing country, federal, state and local regulations

XIV. TRANSPORT INFORMATION

DOT (US):

IMDG:



IATA:



This substance is considered to be non-hazardous for transport.

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: Environmentally hazardous substance, solid, n.o.s. Marine pollutant: Marine pollutant

UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

SARA 302 Components:

SARA 313 Components:

SARA 311/312 Hazards:

Massachusetts Right To Know Components:

Pennsylvania Right To Know Components:

New Jersey Right To Know Components:

California Prop. 65 Components:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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.

Acute Health Hazard.

No components are subject to the Massachusetts Right to Know Act.

No components are subject to the New Jersey Right to Know Act.

No components are subject to the New Jersey Right to Know Act.

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

XVI. OTHER INFORMATION

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