

Doc No: 931-FP000 Rev: A Date of Release: 01-Dec-2014

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

- a) GHS Product Identifier : FISH probes
- b) Other means of identification : Not available
- c) Product code : FP000-XX
- d) Recommended use of the chemical and restrictions on use : Restricted for professional users.
- e) Supplier's details (including name, address, phone number etc.) : BioGenex Laboratories, Inc
49026 Millmont Drive
Fremont, CA 94538
- f) Emergency phone number : BioGenex: (01) (510) 275-0550
Chemtrec Assistance: (800) 424-9300 (U.S. and Canada only)
(01) (703) 527-3887 (all other countries)

2. HAZARD IDENTIFICATION

Formamide

- a) GHS classification of the substance/mixture and any national or regional information:

Repr. 1B

- b) GHS label elements, including precautionary statements :

Hazard symbol :



Signal word : Danger

Hazard statement : H360D May damage the unborn child.

Precautionary statement : P201 Obtain special instructions before use.
: P202 Do not handle until all safety precautions have been read and understood.
: P281 Use personal protective equipment as required.
: P308+P313 IF exposed or concerned: Get medical advice/attention.
: P405 Store locked up.

- c) Other hazards which do not result in the classification or are not covered by the GHS: Restricted to professional users.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

- a) Chemical identity : Mixture
- b) Common name, synonyms, etc. : NDA
- c) CAS number and other unique identifiers

Part Number	Ingredient Name	Percentage	CAS number	Classification
FP000	Formamide	40-<60%	75-12-7	Repr. 1B, H360D

Concentration range provided is intended for issues arising out of lot variations.

d) Impurities and stabilizing additives which are themselves classified and which contribute to the classification of a substance.

Mixture: No information available

NOTE: For information on ingredients, the competent authority rules for CBI take priority over the rules for product identification.

4. FIRST AID MEASURES

a) Description of necessary measures:

Skin : In case of skin contact, immediately wash skin with soap and copious amounts of water for at least 15 minutes.

Eyes : In case of eye contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Get medical aid immediately.

Seek medical attention immediately in case of accidents. Please show the datasheet to the medical practitioner in attendance.

b) Most important symptoms/effects, acute and delayed.

Potential acute health effects

Eye : NDA

Inhalation : NDA

Skin contact : NDA

Ingestion : NDA

Over-exposure symptoms

Eye : NDA

Inhalation : NDA

Skin contact : NDA

Ingestion : NDA

c) Indication of immediate medical attention and special treatment needed, if necessary.

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Special treatment : No special treatment.

5. FIRE-FIGHTING MEASURES

a) Suitable (and unsuitable) extinguishing media :

Use an extinguishing agent suitable for the surrounding fire

b) Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products):

The product itself does not burn.

c) Special protective equipment and precautions for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

a) Personal precautions, protective equipment and emergency procedures:

Wear self-contained breathing apparatus (SCBA) and full protective clothing. Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site.

- b) Environmental precautions:
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- c) Methods and materials for containment and cleaning up.
Stop leak if without risk and move the containers from the area. Dilute and mop the spill with water. Alternatively, for water insoluble spills, adsorb with an inert material and dispose of the material via a licensed waste disposal contractor in according with the local and Federal laws

7. HANDLING AND STORAGE

- a) Precautions for safe handling:
Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Avoid ingestion and inhalation.
- b) Conditions for safe storage, including any incompatibilities:
Store at the recommended temperature and in accordance with local regulations. Store the container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, food and drink. Keep container tightly closed and sealed until ready for use. Reseal the opened containers and keep upright to prevent leakage. Use appropriate containment to avoid contamination

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- a) Control parameters e.g. occupational exposure limit values or biological limit values.
Exposure limits

CAS NO	Substance	ppm	mg/m ³	Category
75-12-7	Formamide	30	20 56	TWA (8h) STEL (15min)

This product is skin resorptive.

- b) Appropriate engineering controls.
VENTILATION: Provide local exhaust or process enclosure ventilation system to meet all federal, state, and local requirements.
RESPIRATOR: None required where adequate ventilation conditions exist.
EYE/SKIN PROTECTION: Wear safety goggles and appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged eye/skin contact with this substance.
- c) Individual protection measures, such as personal protective equipment.
ENGINEERING MEASURES: Provide adequate general and local exhaust ventilation.
RESPIRATORY EQUIPMENT: If ventilation is insufficient, suitable respiratory protection must be provided.
HAND PROTECTION: Use protective gloves.
EYE PROTECTION: Wear approved safety goggles.
HYGIENE MEASURES: Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

- a) Appearance (physical state, color etc.): Liquid, colorless
- b) Odor : odorless
- c) Odor threshold : NDA

- d) pH : NDA
- e) Melting point/freezing point : NDA
- f) Initial boiling point and boiling range : NDA
- g) Flash point : NDA
- h) Evaporation rate : NDA
- i) Flammability (solid, gas) : NDA
- j) Upper/lower flammability or explosive limits: NDA
- k) Vapor pressure : NDA
- l) Vapor density : NDA
- m) Relative density : NDA
- n) Solubility(ies) : NDA
- o) Partition coefficient: n-octanol/water : NDA
- p) Auto-ignition temperature : NDA
- q) Decomposition temperature : NDA
- r) Viscosity : NDA

10. STABILITY AND REACTIVITY

- a) Reactivity : No specific reactivity data available
- b) Chemical stability : Stable under normal storage conditions until expiry date.
- c) Possibility of hazardous reactions : NDA
- d) Conditions to avoid (e.g. static discharge, shock or vibration): Oxidizers, iodine, pyridine, sulfur trioxide, copper, brass, lead.
- e) Incompatible materials : NDA
- f) Hazardous decomposition products. : Under normal storage conditions should not produce hazardous decomposition products. Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

11. TOXICOLOGICAL INFORMATION

Concise but complete and comprehensible description of the various toxicological (health) effects and the available data used to identify those effects, including:

Product/Ingredient name	LD50	Species	Dose	Exposure
Formamide	5580 mg/kg (oral)	Rat	NDA	NDA

- a) Information on the likely routes of exposure: Eyes, Oral, Dermal, Inhalation
- b) Symptoms related to the physical, chemical and toxicological characteristics:
 - Potential acute health effects
 - Eye contact : Causes serious eye irritation and burns

Inhalation : May be harmful if inhaled. Causes respiratory tract irritation
 Skin contact : May cause skin irritation and rash.
 Ingestion : Harmful if swallowed

Symptoms related to the physical, chemical and toxicological characteristics:

Eye contact : NDA
 Inhalation : NDA
 Skin contact : NDA
 Ingestion : NDA

c) Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : NDA
 Potential delayed effects : NDA

Potential long term effects

No data available
 General : NDA
 Carcinogenicity : May damage unborn child
 Mutagenicity : May damage unborn child
 Teratogenicity : NDA
 Developmental effects : NDA
 Fertility effects : May decrease fertility in males and females.

d) Numerical measures of toxicity (such as acute toxicity estimates)

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

a) Ecotoxicity (aquatic and terrestrial, where available):

CAS number	Chemical Name	Method	Dose	Hours	Species
75-12-7	Formamide				
	Acute fish toxicity	LC50	4600-9300	96hrs	<i>Leuciscus idus</i>
	Acute algae toxicity	ErC50	>500mg/l	72	Algae
	Acute crustacea toxicity	EC50	>500mg/l	48	<i>Daphnia magna</i>

b) Persistence and degradability : 70% / 28d (OECD 302 B)

c) Bioaccumulative potential : NDA

d) Mobility in the soil : NDA

e) Other adverse effects : NDA

13. DISPOSAL INFORMATION

Description of waste residues and information on the their safe handling and methods of disposal, including the disposal of any contaminated packaging.

Dispose in accordance with all applicable federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

_a) UN number : NDA

- b) UN proper shipping name : NDA
- c) Transport hazard class(es) : NDA
- d) Packing group, if applicable : NDA
- e) Environmental hazards (e.g.: Marine pollutant (Yes/No): No
- f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): NDA
- g) Special precautions which a user needs to be aware of, or needs to comply with, in connection with the transport or conveyance within or outside their premises: NDA

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question.

U. S. Federal regulation : NDA

Clean Air Act Section 112 : NDA
(b) Hazardous Air Pollutants
(HAPs)

Clean Air Act Section 602 : NDA
Class I Substances

Clean Air Act Section 602 : NDA
Class II Substances

DEA List I Chemicals : NDA
(Precursor Chemicals)

DEA List II Chemicals : NDA
(Essential Chemicals)

Water contaminating class (D): Slightly water contaminating.

International Regulations:

Australia inventory (AICS): NDA

China inventory (IECSC): NDA

Japan inventory: NDA

Korea inventory: NDA

Malaysia Inventory (EHS Register): NDA

New Zealand Inventory of Chemicals (NZIoC): NDA

Philippines inventory (PICCS): NDA

Taiwan inventory (CSNN): NDA

16. Other information including information on preparation and revision of the SDS

Hazardous Material Information System (U.S.A)

Health, Chronic Health Hazard : 2

Flammability : 1

Physical Hazards : 0

Personal protection : H

National Fire Protection Association (U.S.A)

Health : 2

Flammability : 1

Instability/Reactivity Special : 0

Key abbreviations:

NDA

: No data available

Notice to reader

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