

SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2019

Date Updated: June 26, 2019

SECTION 1. - - - - - PRODUCT AND COMPANY IDENTIFICATION - - - - - - -

Product Name Formamide

Product Code(s) FB0211/FDB0212

Recommended Use For Laboratory Research Use Only

Not for Human or Animal Drug Use

Supplier Bio Basic Inc.

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SECTION 2. ----- HAZARDS IDENTIFICATION -----

2.1 Classification of the substance or mixtur

Classification according to Hazardous Products Regulation (SOR/2015-17)

Hazard classes and hazard categories	Hazard statements
Carcinogenicity, category 2	H351
Reproductive toxicity, category 1B	H360
Specific target organ toxicity (repeated exposure), category 2	H373

2.2 Label elements

Labelling in accordance with (SOR/2015-17)

Hazard pictograms



Signal word: Danger

Hazard statements	
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary	
statements	
P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.

Hazards not otherwise classified (HNOC) none/none

SECTION 3. - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

3.1 Substances

Substance name Formamide

Molecular formula CH3NO

Molecular weight 45.04 g/mol

CAS No. 75-12-7

SECTION 4. - - - - - FIRST-AID MEASURES- - - - - -

4.1 General information

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

After inhalation

Call a POISON CENTER/doctor. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

4.2 Most important symptoms/effects, acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

4.4 Self-protection of the first aider

First aider: Pay attention to self-protection!

4.5 Information to physician

no data available

SECTION 5. ----- FIRE FIGHTING MEASURES -----

5.1 Extinguishing media

Suitable extinguishing media

The product itself does not burn.
Co-ordinate fire-fighting measures to the fire surroundings.
Extinguishing media which must not be used for safety reasons no restriction

5.2 Specific hazards arising from the chemical

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2)

5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives.

Protective equipment and precautions for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.

Do not inhale explosion and combustion gases.

Use water spray/stream to protect personnel and to cool endangered containers.

In case of fire: Evacuate area.

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

6.1 Personal precautions, protective equipment and emergency procedures

In case of major fire and large quantities: Remove persons to safety.

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Collect in closed and suitable containers for disposal.

6.4 Additional information

Clear spills immediately.

SECTION 7. ----- HANDLING AND STORAGE-----

7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use. Avoid: Inhalation Avoid contact with eyes and skin. Provide adequate ventilation as well as local exhaustion at critical locations. Usual measures for fire prevention.

7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature: 2-8 °C

Keep container tightly closed and in a well-ventilated place. Always close containers tightly after the removal of product.

7.3 Specific end use(s)

no data available

SECTION 8. - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - -

8.1 Control parameters

Ingredient	Regulatory	Country	Limit value type	Limit value
(Designation)	information		(country of origin)	
Formamide	Gestis	CA	LTV	18 mg/m³ - 10 ppm

8.2 Engineering controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Personal protection equipment (PPE)

Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

Eye/face protection

Eye glasses with side protection

Skin protection

Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.

By short-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,12 mm
Breakthrough time (maximum wearing time): 240-480 min

By long-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,38 mm Breakthrough time (maximum wearing time): > 480 min

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

Environmental exposure controls

no data available

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

9.1 Information on basic physical and chemical properties

(a) Appearance

Physical state: liquid Color: colorless

(b) Odour: no data available (c) Odour threshold: no data available

Safety relevant basic data

(d) pH: 4-5 (200 g/l; H2O; 20 °C)

(e) Melting point/freezing point: 2 °C

(f) Initial boiling point and boiling range: 210 °C (1013 hPa)

(g) Flash point: 79 °C

(h) Evaporation rate: no data available (i) Flammability (solid, gas): not applicable

(j) Flammability or explosive limits

Lower explosion limit: 2.7 % (v/v)
Upper explosion limit: 19 % (v/v)

(k) Vapour pressure: 30 mmHg (130 °C) (l) Vapour density: 1.56 (20 °C)

(m) Relative density: 1.1334 g/cm³ (20 °C)

(n) Solubility(ies)

Water solubility (g/L): soluble (20 °C)
Soluble (g/L) in Ethanol: no data available

(o) Partition coefficient: n-octanol/water: -1.51 (20 °C)

(p) Auto-ignition temperature: 500 °C (DIN 51794)

(q) Decomposition temperature: no data available

(r) Viscosity

Kinematic viscosity: no data available
Dynamic viscosity: 3.75 mPa*s (20 °C)
(s) Explosive properties: not applicable
(t) Oxidising properties: not applicable

9.2 Other information

Bulk density: not applicable

Refraction index: 1.44911 (589 nm; 20 °C)

Dissociation constant:

Surface tension:

Henry constant:

no data available
no data available

SECTION 10. ------STABILITY AND REACTIVITY -----

10.1 Reactivity

no data available

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

10.7 Additional information

no data available

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity:

LD50: > 5800 mg/kg - Rat - (Merck KGaA)

Acute dermal toxicity:

LD50: > 17000 mg/kg - Rabbit - (Merck KGaA)

Acute inhalation toxicity:

LC50: > 3900 ppm - Rat - (National Library of Medicine ChemID Plus (NLM CIP))

Irritant and corrosive effects

Primary irritation to the skin: not applicable

Irritation to eyes: not applicable

Irritation to respiratory tract: not applicable

Respiratory or skin sensitization

In case of skin contact: not sensitising

After inhalation: not sensitising

STOT-single exposure

not applicable

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

no data available	ACGIH	IARC	NTP	OSHA

Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

May damage fertility or the unborn child.

Aspiration hazard

not applicable

Other adverse effects

no data available

Additional information

no data available

SECTION 12. ----- ECOLOGICAL INFORMATION -----

12.1 Ecotoxicity

Fish toxicity:

no data available

Daphnia toxicity:

no data available

Algae toxicity: no

data available

Bacteria toxicity:

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: -1.51 (20 °C)

12.4 Mobility in soil:

no data available

12.5 Results of PBT/vPvB assessment

no data available

12.6 Other adverse effects

no data available

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

13.1 Waste treatment methods

Appropriate disposal / Product

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal. Send to a hazardous waste incinerator facility under observation of official regulations.

Waste code product: no data available

Appropriate disposal / Package

Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

Additional information

no data available

SECTION 14. ----- TRANSPORT INFORMATION -----

Land transport (TDG)

No dangerous good in sense of this transport regulation.

Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant

Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.

SECTION 15. ----- REGULATORY INFORMATION -----

Safety, health and environmental regulations/legislation specific for the substance or mixture Domestic Substance List:

SECTION 16. ----- OTHER INFORMATION-----

Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygiensts DOT - Department of Transportation IARC - International Agency for Research on Cancer

IATA-DGR - International Air Transport Association-Dangerous Goods Regulations

ICAO-TI - International Civil Aviation Organization-Technical Instructions

IMDG - International Maritime Code for Dangerous Goods LTV - Long Term Value

NIOSH - National Institute for Occupational Safety and

Health NTP - National Toxicology Program

OSHA - Occupational Safety & Health Administration

PBT - Persistent, Bioaccumulative and Toxic

PEL - Permissible Exposure Limit

STV - Short Term Value

SVHC - Substances of Very High Concern TDG - Transport of Dangerous Goods TLV - Threshold Limit Value

vPvB - very Persistent, very Bioaccumulative

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Revision Note No information available. **Recommended Restrictions** No information available

Disclaimer

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End of SDS

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