



SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company/undertaking

Identification of the substance/preparation

Product code 4311320
Product name Hi-Di Formamide

Company/Undertaking Identification

Life Technologies
5791 VAN ALLEN WAY
PO BOX 6482
CARLSBAD, CA 92008
+1 760 603 7200

LIFE TECHNOLOGIES LIMITED
3 FOUNTAIN DRIVE
INCHINNAN BUSINESS PARK
PAISLEY, PA4 9RF
SCOTLAND
44-141 814-6100

24 hour Emergency Response (Transport): 866-536-0631
301-431-8585
Outside of the U.S. +1-301-431-8585

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

2. Hazards identification

In accordance with local and national regulations,

the preparation is classified as dangerous in accordance with Directive 1999/45/EC REGULATION (EC) No 1272/2008
Classification according to EU Directives 67/548/EEC or 1999/45/EC

GHS - Classification

Signal Word

DANGER

GHS Final Health Effects Graphic



Health Hazard

Reproductive Toxicity

Category 1B

Physical Hazards

not hazardous

Hazard statements

H360 - May damage fertility or the unborn child

Precautionary statements

P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned: Get medical attention/advice

P405 - Store locked up

European Union



EU Specific Hazard Statements

R -phrase(s)

R61 - May cause harm to the unborn child

S -phrase(s)

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

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**Principle Routes of Exposure/
Potential Health effects**

Eyes	Irritating to eyes.
Skin	Irritating to skin. Harmful in contact with skin. Components of the product may be absorbed into the body through the skin.
Inhalation	Irritating to respiratory system. Harmful by inhalation.
Ingestion	Harmful if swallowed.

Specific effects

carcinogenic effects	none.
mutagenic effects	none.
Reproductive toxicity	May cause harm to the unborn child.
Sensitization	none
Aggravated Medical Conditions	None under normal use conditions

3. Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
Formamide	75-12-7	200-842-0	60-100

We recommend handling all chemicals with caution.

4. First aid measures

Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Immediate medical attention is required.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Ingestion	Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison Control Centre immediately.
Notes to physician	Treat symptomatically

5. Fire-fighting measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO2). Foam. Dry chemical.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

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Personal precautions

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Methods for cleaning up

Soak up with inert absorbent material.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for additional information.

7. Handling and storage

Handling

Always wear recommended Personal Protective Equipment. No special handling advice required.

Storage

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

8. Exposure controls/personal protection
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Exposure limits

Chemical Name	Austria OEL (MAK)	Belgium (TWA)	Denmark (TWA)	Finland OEL (TWA)
Formamide	16 mg/m ³ 9 ppm	10 ppm 18 mg/m ³	10 ppm 18 mg/m ³	10 ppm 19 mg/m ³

Chemical Name	France OEL (VME)	Germany OEL (TWA)	Ireland (TWA)	Italy OEL (TWA)
Formamide	20 ppm 30 mg/m ³	-	20 ppm 30 mg/m ³	-

Chemical Name	Netherlands OEL (MAC)	Spain OEL (TWA)	United Kingdom
Formamide	-	10 ppm 19 mg/m ³	20 ppm 37 mg/m ³

Chemical Name	European Union	United Kingdom	France OEL (VME)	Germany OEL (TWA)
Formamide 75-12-7			20 ppm 30 mg/m ³	-

Chemical Name	Italy OEL (TWA)	Portugal	Netherlands OEL (MAC)	Finland OEL (TWA)
Formamide 75-12-7				10 ppm 19 mg/m ³

Chemical Name	Austria OEL (MAK)	Denmark	Poland	Switzerland
Formamide 75-12-7	16 mg/m ³ 9 ppm			

Chemical Name	Ireland	Norway	Spain OEL (TWA)
Formamide 75-12-7			10 ppm 19 mg/m ³

Engineering measures

Ensure adequate ventilation, especially in confined areas

Personal protective equipment**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment

Hand protection	Impervious gloves
Eye protection	Safety glasses with side-shields
Skin and body protection	Lightweight protective clothing
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice

<u>Environmental exposure controls</u>	Prevent product from entering drains Do not allow material to contaminate ground water system
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9. Physical and chemical properties

General Information

Form	liquid
Appearance	No information available
Odor	No information available
Boiling Point/Range	°C no data available °F no data available
Melting point/range	°C no data available °F no data available
Flash point	°C no data available °F no data available
Autoignition temperature	°C no data available °F no data available
Oxidizing properties	No information available
Water solubility	soluble

10. Stability and reactivity

Stability	Stable under normal conditions.
Materials to avoid	Acids. Bases. Incompatible with oxidizing agents.
Hazardous decomposition products	Carbon oxides, Nitrogen Oxides.
polymerization	None under normal processing

11. Toxicological information

Acute toxicity

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Formamide	> 5000 mg/kg (Rat)	13500 mg/kg	3900 ppm/6H

Principle Routes of Exposure/

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Inhalation	Irritating to respiratory system. Harmful by inhalation.
Ingestion	Harmful if swallowed.
carcinogenic effects	none.
mutagenic effects	none.
Reproductive toxicity	May cause harm to the unborn child.
Sensitization	none.

Aggravated Medical Conditions

None under normal use conditions.

12. Ecological information

Ecotoxicity effects	No information available
Chronic aquatic toxicity	Not classified chronic
Mobility	No information available
Biodegradation	No information available
Bioaccumulation	No information available

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Formamide 75-12-7	Desmodesmus subspicatus EC50>500 mg/L (72 h) Desmodesmus subspicatus EC50>500 mg/L (96 h)	Daphnia magna EC50>500 mg/L (48 h)			logPow-0.82

13. Disposal considerations

Dispose of in accordance with local regulations

14. Transport information**IATA**

Proper shipping name	Not classified as dangerous in the meaning of transport regulations
Hazard class	none
Subsidiary Class	none
Packing group	none
UN-No	none

15. Regulatory information**International Inventories**

Chemical Name	EINECS	ELINCS	ENCS	PICCS
Formamide	Listed	-	Listed	Listed

Chemical Name	AICS	KECL	DSL	NDSL
Formamide	Listed	Listed	Listed	-

16. Other information**Reason for Revision** (M)SDS sections updated.

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End of Safety Data Sheet