

Issuing Date: 22-Dec-1997

Revision Date: 12-July-2018

Rev. 6

Product Name:	Formamide
Product Code:	IB72020 & IB72024
Recommend Use:	For further manufacturing use only Not for human or animal drug use Used for denaturing nucleic acids in hybridization and DNA sequencing procedures
Synonyms:	AMID KYSELINY MRAVENCI (CZECH) * CARBAMALDEHYDE * FORMAMID (ACGIH) * METHANAMIDE * METHANQIC ACID, AMIDE *
Company:	IBI SCIENTIFIC 7445 Chavenelle Road Dubuque, IA 52002
Emergency Tele. Number:	3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703
Company Tele. Number:	1-800-253-4942 / (001) 563-690-0484
E-Mail Address:	info@ibisci.com

2. HAZARDO	IS IDENTIFICATION
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2. HAZARDOUS IDENTIFICATION		
GHS – Classification		
Classification:	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)	
Signal Word:	Danger	
Hazard Statements:	H360-May damage fertility or the unborn child	
Precautionary Statements:	P201-Obtain special instruction 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 * P501-Dispose of contents/container to an approved waste disposal plant.	
Hazards not otherwise classified		
Other Information:	May be harmful if inhaled	
Unknown Acute Toxicity:	0.58% of the mixture consists of ingredient(s) of unknown toxicity	

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3. COMPOSITION/INFORMA	TION ON INGREDIENT	S		
Chemical Name:	Formamide			
EC No.:	EEC No. 200-842-0			
REACH Reg. No.:	Not Available			
CAS No.:	75-12-7			
Weight %:	98 - 100	98 - 100		
Classification:	Repr.Cat.2; R61			
4. FIRST AID MEASURES				
Eye Contact:		Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.		
Skin Contact:	Wash off immediately and shoes.	y with soap and plenty of water, removing all contaminated clother		
Inhalation:	Move to fresh air. If r	not breathing, give artificial respiration.		
Ingestion:		by mouth to an unconscious person. Rinse mouth.		
Notes to Physician:	Treat symptomatically	· ·		
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5. FIRE FIGHTING MEASU	RES			
Flammable Properties:		Not flammable		
Flash Point:		150°C / 302°F		
Suitable Extinguishing Media:		Use extinguishing measures that are appropriate to local circumstances and the surrounding environment		
Hazardous Combustion Products:		Carbon oxides, Nitrogen oxides (NOx), Hydrogen cyanide		
<ul> <li>Explosion Data Sensitivity to Mechanical Impact: Sensitivity to Static Discharge:</li> <li>Protective Equip. &amp; Precautions for Firefighters:</li> </ul>		Not sensitive Not sensitive		
		As in any fire, wear self-contaimed breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear.		
6. ACCIDENTAL RELEASE	MEASURES			
Personal Precautions:	Ensure adequate vent	ilation, especially in confined areas.		
Methods for Containment:	Prevent further leakag	ge or spillage, if safe to do so.		
Methods for Cleaning Up:		Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.		
7. HANDLING AND STORAG	GE			
Handling:		Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing.		
Storage:	Keep container tightly closed in a dry and well ventilated place.			
Incompatible Products:	Acids, Bases, Strong oxidizing agents, Iron and Iron salts, Copper alloys, Rubber, Aluminum			
8. EXPOSURE CONTROLS	PERSONAL PROTECT			
Chemical Name:	Formamide - #75	5-12-7		
ACGIH TLV:	TWA: 10ppm			
OSHA PEL:	-			

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Engineering Measures:	Showers, Eyewash Stations, Ventilation Systems		
<u>Personal Protective Equipment</u> Eye/Face Protection:	Safety glasses with side-shields. Avoid contact with eyes.		
Skin & Body Protection:	Wear protective gloves/clothing.		
Respiratory Protection:	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.		
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice.		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

7. THISICAL AND CHEMICAL TROPEN	
Appearance:	Colorless, slightly viscous liquid
Odor:	faint odor, slight ammonia
Odor Threshold:	No information available
Decomposition Temp. °C:	No information available
Freezing Point:	No information available
Initial Boiling Point:	No information available
Physical State:	Liquid
pH:	4 - 10
Flash Point:	152°C / 302°F
Autoignition Temp. °C:	499°C / 932°F
Decomposition Temperature:	180-210°C
Boiling Point/Range:	210-216°C
Melting Point/Range:	1-3°C
Flammability Limits (Air):	<u>Upper</u> -No data available * <u>Lower</u> -No data available
Explosive Properties:	No information available
Oxidizing Properties:	No information available
Evaporation Rate:	No data available
MMHG @ 37.8°C:	No data available
Vapor Density:	No data available
Specific Gravity:	1.133
Density:	1.55
Solubility:	No information available
Water Solubility:	No data available
Partition Coefficient (n-octanol/water):	No data available
Viscosity:	No information available
Molecular Weight:	45.04
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<b>10. STABILITY AND REACTIVITY</b>	
Stability:	Stable under recommended storage conditions
Incompatible Products:	Acids, Bases, Strong oxidizing agents, Iron and Iron Salts, Copper alloys, Rubber, Aluminum
Conditions to Avoid:	Protect from moisture. Heating to decomposition or contact with acids or acid vapors can liberate poisonous cyanide vapors
Hazardous Decomposition Products:	In the event of fire: see section 5.
Hazardous Polymerization:	Hazardous polymerization does not occur.

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Acute Toxicity			
Product Information:	Inhalation:	There is no data available for this product	
	Eye Contact:	There is no data available for this product	
	Skin Contact:	There is no data available for this product	
	Ingestion:	There is no data available for this product	
Chemical Name:	Formamide - #75-12-7		
LD50 Oral:	5577mg/kg (Rat) * 5000mg/kg (Rat)		
LD50 Dermal:	-		
LC50 Inhalation:	> 3900ppm (Rat	t) 6h	
Information on toxicological effe	ects		
Symptoms:	No information	available	
Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Sunsitization:	No information	available	
Mutagenic Effects:	No information available		
Carcinogenicity:	No information available		
Chemical Name:	Formamide - #7	5-12-7	
ACGIH:	-		
IARC:	-		
NTP:	-		
OSHA:	-		
<b>Reproductive Toxicity:</b>	Presumed human	n reproductive toxicant	
STOT – single exposure:	No information	available	
STOT – repeated exposure:	No information	available	
Chronic Toxicity	Suspected terato	ogen	
Target Organ Effects	Blood		
Aspiration hazard	No information	available	
Numerical measures of toxicity -	– Product Inform	ation	

**11. TOXICOLOGICAL INFORMATION** 

**Unknown Acute Toxicity:** 0.58% of the mixture consists of ingredient(s) of unknown toxicity **The following values are calculated based on chapter 3.1 of the GHS document.** 

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# **12. ECOLOGICAL INFORMATION**

0.58% of the mixture consists of component(s) of unknown hazards to the aquatic enivornment
Formamide - #75-12-7
EC50 > 500mg/L (48h) EC50 > 500mg/L (72h)
LC50 = 4600-9300mg/L Leuciscus idus (96h) LC50 = 9135mg/L Brachydanio rerio (96h)
EC50 = 500mg/L Daphnia magna (48h)
No information avaiable
No information available

### **13. DISPOSAL CONSIDERATIONS**

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Water Disposal Method:	Dispose of material in accordance with all federal, state, and local regulations.
<b>Contaminated Packaging:</b>	Do not re-use empty containers

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**14. TRANSPORT INFORMATION** 

#### IATA

Not regulated

#### US DOT

Not regulated

#### **15. TOXICOLOGICAL INFORMATION**

#### **REACH Title VII Restrictions**

Chemical Name: Dangerous Substances: Organic Solvents: Harmful Substances Whose Names are to be indicated on the Label: Pollution Release and Transfer Registry (Class II): Pollution Release and Transfer Registry (Class I): Poison and Deleterious Substances Control Law: ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying: ISHA – Harmful Substances Requiring Permission: Toxic Chemical Classification Listing (TCCL): Toxic Release Inventory (TRI) – Group I: Toxic Release Inventory (TRI) – Group II:

#### **International Inventories**

TSCA:	Complies
DSL:	Complies
EINECS/ELINCS:	Complies
ENCS:	Complies
IECSC:	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

#### No information available Formamide - #75-12-7 >=>=1% by weight Not applicable

Not applicable Not applicable Not applicable Not applicable

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#### U.S. Federal Regulations SARA 313

Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain a chemical/chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

#### SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### **Clean Water Act**

This product does not contain any substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name:	Formamide - #75-12-7
CWA - RQ	-
CWA – Toxic Pollutants:	-
CWA – Priority Pollutants:	-
CWA – Hazardous Substance:	-

## SAFETY DATA SHEET

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Clean Air Act	Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61). This product contains the following substances which are listed hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act.
Chemical Name:	Formamide - #75-12-7
Weight (%):	95 - 100
HAPs Data:	-
VOC Chemicals:	Group II
Class 1 Ozone Depletors:	-
Class 2 Ozone Depletors:	-
CERCLA	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.
Chemical Name:	Formamide - #75-12-7
Hazardous Substances RQs:	-
Extremely Hazardous Substa	nces RQs: -
RQ:	-
<u>U.S. State Regulations</u> California Proposition 65	This product does not contain any Proposition 65 chemicals.
State	
Massachusetts	X
New Jersey	X
Pennsylvania	X
U.S. EPA Label Information         EPA Pesticide Registration Number:         Not regulated	
<u>International Regulations</u> Mexico	
Chemical Name:	Formamide - #75-12-7
Carcinogen Status:	-
Exposure Limits:	Mexico: TWA = $30 \text{mg/m}^3$
	Mexico: TWA = 20ppm
Canada	

WHMIS Hazard Class

D2A – Very toxic materials



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<b>16. OTHER INFORMATION</b>	
Issuing Date:	22-Dec-1997
<b>Revision Date:</b>	12-July-2018
<b>Revision Note:</b>	Updated address and logo
<b>Recommended Restrictions:</b>	No information available
Disclaimer:	The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release; and is not to be considered as 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 material or in any process, unless specified in the test.

End of Safety Data Sheet