

SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Identification of the substance or mixture**

**Product code** 4426962  
**Product name** TQMN NONCODING RNA ASSAY MTO M

**Company/undertaking identification**

Life Technologies  
 5791 Van Allen Way  
 PO Box 6482  
 Carlsbad, CA 92008  
 +1 760 603 7200

Life Technologies  
 5250 Mainway Drive  
 Burlington, ONT  
 CANADA L7L 6A4  
 800/263-6236

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

**Country specific Emergency Number (if available):**  
 CHEMTREC Brazil (Rio De Janeiro) +(55)-2139581449 (português)

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

SECTION 2: Hazards identification

**GHS - Classification**

**Signal Word**  
 DANGER



**Health hazards**

Carcinogenicity	Category 2
Reproductive Toxicity	Category 1B

**Physical hazards**

Not Hazardous

### **Hazard Statements**

H360 - May damage fertility or the unborn child if swallowed

H351 - Suspected of causing cancer if swallowed

### **Precautionary Statements**

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

P202 - Do not handle until all safety precautions have been read and understood

P201 - Obtain special instructions before use

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P405 - Store locked up

### **Principle Routes of Exposure**

#### **Potential Health Effects**

**eyes** May cause eye irritation with susceptible persons.  
**Skin** May cause skin irritation in susceptible persons.  
**inhalation** May cause irritation of respiratory tract.  
**Ingestion** May be harmful if swallowed.

#### **Specific effects**

**Carcinogenic effects** This product contains one or more substances which are classified as carcinogenic, mutagenic and/or reprotoxic.  
**Mutagenic effects** Not Applicable  
**Reproductive toxicity** May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility  
**Sensitization** Not Applicable  
**Target Organ Effects** No known effects under normal use conditions

### **HMIS**

Health	2 * Chronic Hazard
Flammability	1
Reactivity	0

### SECTION 3: Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
Formamide	75-12-7	200-842-0	0.1-1.0

We recommend handling all chemicals with caution.

### SECTION 4: First aid measures

**Skin contact** Wash off immediately with plenty of water. In the case of skin irritation or allergic reactions see a physician.  
**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. Call a physician if irritation persists.  
**Ingestion** Rinse mouth. Consult a physician if necessary. Do not induce vomiting without medical advice.  
**inhalation** Remove to fresh air. Consult a physician if necessary.  
**Notes to Physician** Treat symptomatically.

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## SECTION 5: Firefighting measures

<b>Suitable extinguishing media</b>	Foam. Dry powder. Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

## SECTION 6: Accidental release measures

<b>Personal precautions</b>	Avoid exposure to vapor. Avoid breathing vapors or mists. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection equipment.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

### Environmental precautions

Should not be released into the environment. Prevent product from entering drains.

See Section 12 for more information.

## SECTION 7: Handling and storage

<b>Handling</b>	Always wear recommended Personal Protective Equipment. Avoid contact with skin, eyes or clothing. Use only in ventilated areas.
<b>Storage</b>	Store locked up. Keep in properly labeled containers. Keep container tightly closed in a dry and well-ventilated place. Keep away from combustible material.

## SECTION 8: Exposure controls/personal protection

### Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Formamide	37 mg/m <sup>3</sup>	None	10 ppm	None

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Impervious gloves.

**Eye protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Lightweight protective clothing.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Should not be released into the environment. Prevent product from entering drains.

## SECTION 9: Physical and chemical properties

### General information

<b>Form</b>	Liquid	
<b>Appearance</b>	colorless	
<b>Odor</b>	Mixture has not been tested	
<b>Odor Threshold</b>	Mixture has not been tested	
<b>Boiling point / boiling range</b>	°C 100-210	°F 212-410
<b>Melting point / melting range</b>	°C 0-2.5	°F 32-36.5
<b>flash point</b>	°C >120	°F >248
<b>Autoignition Temperature</b>	°C >500	°F >932
<b>Oxidizing properties</b>	Mixture has not been tested	
<b>Water solubility</b>	soluble	
<b>Viscosity</b>	Mixture has not been tested	

## SECTION 10: Stability and reactivity

<b>Stability</b>	Stable under normal conditions.
<b>Materials to avoid</b>	Strong oxidizing agents. Acids. Bases. Sulphur trioxide. Iodine.
<b>Hazardous decomposition products</b>	Hydrogen cyanide (hydrocyanic acid). Nitrogen oxides (NOx). Ammonia. Carbon monoxide.
<b>polymerization</b>	Hazardous polymerization does not occur.

## SECTION 11: Toxicological information

### Acute Toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Formamide	3200 mg/kg	13500 mg/kg	3900 ppm/6H

### Principle Routes of Exposure

#### Potential Health Effects

<b>eyes</b>	May cause eye irritation with susceptible persons
<b>Skin</b>	May cause skin irritation in susceptible persons
<b>inhalation</b>	May cause irritation of respiratory tract
<b>Ingestion</b>	May be harmful if swallowed
<b>Carcinogenic effects</b>	This product contains one or more substances which are classified as carcinogenic, mutagenic and/or reprotoxic.
<b>Mutagenic effects</b>	No information available
<b>Reproductive toxicity</b>	May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility.
<b>Sensitization</b>	No information available

## SECTION 12: Ecological information

<b>Ecotoxicity</b>	Daphnia magna
<b>Mobility</b>	see log Pow

**Biodegradation**  
**Bioaccumulation**

Readily biodegradable  
Material does not bioaccumulate

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

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

**IATA**

<b>Proper Shipping Name</b>	No dangerous good in sense of these transport regulations
<b>Hazard Class</b>	None
<b>Subsidiary class</b>	None
<b>Packing group</b>	None
<b>UN-No</b>	None

## SECTION 15: Regulatory information

Component	TSCA
Formamide 75-12-7 ( 0.1-1.0 )	Listed

**US Federal Regulations****SARA 313**

This product is not regulated by SARA.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contains HAPs.

**US State Regulations**

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
Formamide	Listed	Listed	Listed	-	Listed

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**WHMIS Hazard Class**

D2A - Very toxic materials



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## SECTION 16: Other information

**Reason for revision** Not Applicable. SDS sections updated.

For research use only.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"

**End of Safety Data Sheet**

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