

Safety Data Sheet

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

Identification of the substance or mixture

Product code 4331348

Product name Dye Labeled Oligonucleotide Assays

Company/undertaking identification

Life Technologies
5791 Van Allen Way
5250 Mainway Drive
PO Box 6482
Burlington, ONT
Carlsbad, CA 92008
+1 760 603 7200
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

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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	

	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

Foam. Dry powder. Dry chemical. Carbon dioxide (CO2). Suitable extinguishing media

Water.

Special protective equipment for firefighters Wear self-contained breathing apparatus and protective

suit.

SECTION 6: Accidental release measures

Personal precautions Avoid exposure to vapor. Avoid breathing vapors or mists. Ensure adequate

ventilation. Avoid contact with skin, eyes or clothing. Use personal protection

equipment.

Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal Methods for cleaning up

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

Handling Always wear reccommended Personal Protective Equipment, Avoid contact with

skin, eyes or clothing. Use only in ventilated areas.

Store locked up. Keep in properly labeled containers. Keep container tightly closed Storage

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 ³	None	10 ppm	None

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

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.

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

Hand protection Impervious gloves.

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

Skin and Body Protection Lightweight protective clothing.

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

Environmental exposure

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

controls

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SECTION 9: Physical and chemical properties

General information

Form Liquid **Appearance** colorless

Odor Mixture has not been tested Mixture has not been tested **Odor Threshold**

Boiling point / boiling range °C 100-210 °F 212-410 °C 0-2.5 Melting point / melting range °F 32-36.5 °C >120 flash point °F >248 **Autoignition Temperature** °C >500 °F >932

Oxidizing properties Mixture has not been tested

Water solubility soluble

Viscosity Mixture has not been tested

SECTION 10: Stability and reactivity

Stable under normal conditions. **Stability**

Strong oxidizing agents. Acids. Bases. Sulphur trioxide. Iodine. Materials to avoid

Hazardous decomposition Hydrogen cyanide (hydrocyanic acid). Nitrogen oxides (NOx). Ammonia. Carbon

products monoxide.

Hazardous polymerization does not occur. polymerization

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

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

Carcinogenic effects This product contains one or more substances which are classified as

carcinogenic, mutagenic and/or reprotoxic.

No information available **Mutagenic effects**

Reproductive toxicity May cause adverse reproductive effects - such as birth defect, miscarriages, or

infertility.

No information available Sensitization

SECTION 12: Ecological information

Ecotoxicity Daphnia magna **Mobility** see log Pow

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Bioaccumulation 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

Proper Shipping Name

No dangerous good in sense of these transport regulations

Hazard Class None
Subsidiary class None
Packing group None
UN-No None

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SECTION 15: Regulatory information

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

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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