

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

Identification of the substance or mixture

Product code A25576
Product name TQMN ADV MIRNA ASYS INV SM

Company/undertaking identification

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

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

24 hour Emergency Response: 866-536-0631
 301-431-8585
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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

Specific target organ systemic toxicity (repeated exposure)	Category 2
Carcinogenicity	Category 2
Reproductive Toxicity	Category 1B

Physical hazards

Not Hazardous

Hazard Statements

H360 - May damage fertility or the unborn child

H351 - Suspected of causing cancer if swallowed

H373 - May cause damage to organs through prolonged or repeated exposure if swallowed

Precautionary Statements

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

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

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

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 be harmful by inhalation.
Ingestion Harmful if swallowed.

Specific effects

Carcinogenic effects Carcinogenic category 2
Mutagenic effects None
Reproductive toxicity Reproductive toxic Cat.2 (Repr. Cat. 2)
Sensitization None

Target Organ Effects Cardiovascular System

HMIS

Health	3 * Chronic Hazard
Flammability	0
Reactivity	0

SECTION 3: Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
Formamide	75-12-7	200-842-0	1-5

We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Skin contact Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.
Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion Call a POISON CENTER or doctor/physician if you feel unwell. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
inhalation Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

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Notes to Physician

Treat symptomatically.

SECTION 5: Firefighting 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.

SECTION 6: Accidental release measures**Personal precautions**

Use personal protection equipment.

Methods for cleaning up

Soak up with inert absorbent material.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for more information.

SECTION 7: Handling and storage**Handling**

Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

Storage

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

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

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

Prevent product from entering drains.

SECTION 9: Physical and chemical properties**General information****Form**

Liquid

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Appearance	No information available	
Odor	No information available	
Boiling point / boiling range	°C No data available	°F No data available
Melting point / melting 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	
pH value	8	

SECTION 10: Stability and reactivity

Stability	Stable under normal conditions.
Materials to avoid	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	None under normal use conditions.
polymerization	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	No data available	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 be harmful by inhalation
Ingestion	Harmful if swallowed
Carcinogenic effects	Carcinogenic category 2
Mutagenic effects	None
Reproductive toxicity	Reproductive toxic Cat.2 (Repr. Cat. 2).
Sensitization	None
Target Organ Effects	Cardiovascular System

SECTION 12: Ecological information

Ecotoxicity	Daphnia magna
Mobility	see log Pow
Biodegradation	Inherently biodegradable
Bioaccumulation	Material does not bioaccumulate

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow

Formamide	Desmodemus subspicatus EC50>500 mg/L (96 h) Desmodemus subspicatus EC50>500 mg/L (72 h)	Daphnia magna EC50>500 mg/L (48 h)			logPow-0.82
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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

SECTION 15: Regulatory information

Component	TSCA
Formamide 75-12-7 (1-5)	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 SDS sections updated.

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

"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