

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

**Identification of the substance or mixture**

**Product code** AM7030  
**Product name** RNALATER-ICE 25 ML

**Company/undertaking identification**

Life Technologies Corporation  
5781 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 for use in diagnostic procedures.**

## SECTION 2: Hazards identification

**GHS - Classification****Signal Word**

DANGER

**Health hazards**

Specific target organ systemic toxicity (single exposure)	Category 2
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**Physical hazards**

GHS Physical Hazard 1	Flammable liquids
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**Hazard Statements**

H225 - Highly flammable liquid and vapor  
H371 - May cause damage to organs if inhaled

**Precautionary Statements**

P370 + P378 - In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P264 - Wash hands thoroughly after handling

**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** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Specific effects**

**Carcinogenic effects** None.  
**Mutagenic effects** None.  
**Reproductive toxicity** May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility.  
**Sensitization** Not Applicable.  
**Target Organ Effects** No information available.

**HMIS**

Health	4 * Chronic Hazard
Flammability	3
Reactivity	0

**SECTION 3: Composition/information on ingredients**

Component	CAS-No	EINECS-No	Weight %
Ethyl alcohol 64-17-5 ( 60-100 )	64-17-5	200-578-6	60-100
Methyl alcohol 67-56-1 ( 1-5 )	67-56-1	200-659-6	1-5

We recommend handling all chemicals with caution.

**SECTION 4: First aid measures**

**Skin contact** Wash off immediately with plenty of water. Take off contaminated clothing.  
**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Ingestion** Never give anything by mouth to an unconscious person.  
**Inhalation** Remove to fresh air.  
**Most important symptoms and effects, both acute and delayed**  
H225 - Highly flammable liquid and vapor, H371 - May cause damage to organs if inhaled

**Notes to Physician** Treat symptomatically.

#### SECTION 5: Firefighting measures

**Suitable extinguishing media** Dry chemical.  
**Special protective equipment for firefighters** Wear self-contained breathing apparatus and protective suit.  
**Specific hazards arising from the chemical** Not known

#### SECTION 6: Accidental release measures

**Personal precautions** Remove all sources of ignition.  
**Methods for cleaning up** Soak up with inert absorbent material.

#### Environmental precautions

No special environmental precautions required.

See Section 12 for more information.

#### SECTION 7: Handling and storage

**Handling** Always wear recommended Personal Protective Equipment. Keep away from heat, sparks and open flame. Ensure adequate ventilation.  
**Storage** Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

#### SECTION 8: Exposure controls/personal protection

#### Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Ethyl alcohol	1000 ppm 1900 mg/m <sup>3</sup>	None	None	1000 ppm
Methyl alcohol	200 ppm 260 mg/m <sup>3</sup>	None	200 ppm	250 ppm

**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**

No special environmental precautions required.

**SECTION 9: Physical and chemical properties**

**General information**

<b>Form</b>	Liquid
<b>Appearance</b>	No information available
<b>Odor</b>	Mixture has not been tested
<b>Odor Threshold</b>	Mixture has not been tested
<b>Boiling point / boiling range</b>	°C >35 °F >95
<b>Melting point / melting range</b>	°C No data available °F No data available
<b>flash point</b>	°C <23 °F <73.4
<b>Autoignition Temperature</b>	°C No data available °F No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Oxidizing properties</b>	Mixture has not been tested
<b>Water solubility</b>	soluble
<b>Upper explosion limit</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>vapor density</b>	No data available
<b>Viscosity</b>	Mixture has not been tested
<b>pH value</b>	No data available

**SECTION 10: Stability and reactivity**

<b>Stability</b>	Stable under normal conditions.
<b>Materials to avoid</b>	Oxidizing agents. Acids. Bases.
<b>Possibility of hazardous reactions</b>	Hazardous reaction has not been reported
<b>Hazardous decomposition products</b>	No known hazardous decomposition products.
<b>polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	High temperature. Proximity to sources of ignition.

**SECTION 11: Toxicological information**

**Acute Toxicity**

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Ethyl alcohol	= 7060 mg/kg (Rat)	No data available	=124.7mg/L(Rat)
Methyl alcohol	= 6200 mg/kg (Rat)	No data available	=64000ppm(Rat) =22500ppm(Rat)

**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>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Carcinogenic effects</b>	None.
<b>Mutagenic effects</b>	None.
<b>Reproductive toxicity</b>	May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility.
<b>Sensitization</b>	No information available.
<b>Target Organ Effects</b>	No information available

## SECTION 12: Ecological information

<b>Ecotoxicity</b>	The environmental impact of this product has not been fully investigated.
<b>Mobility</b>	see log Pow.
<b>Biodegradation</b>	No information available.
<b>Bioaccumulation</b>	No information available.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Ethyl alcohol		Daphnia magna EC50=10800 mg/L (24 h) Daphnia magna EC50=2 mg/L (48 h) Daphnia magna LC509268 - 14221 mg/L (48 h)			logPow-0.32
Methyl alcohol					logPow-0.77

## SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

## SECTION 14: Transport information

**IATA**

<b>Proper Shipping Name</b>	Ethanol solution
<b>Hazard Class</b>	3
<b>Subsidiary class</b>	None
<b>Packing group</b>	II
<b>UN-No</b>	1170
<b>Environmental hazards</b>	None

## SECTION 15: Regulatory information

Component	US TSCA
Ethyl alcohol 64-17-5 ( 60-100 )	Listed
Methyl alcohol 67-56-1 ( 1-5 )	Listed

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

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers:.

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight %</u>	<u>SARA 313 - Threshold Values</u>
Methyl alcohol	67-56-1	1-5	1.0

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

This product contains the following HAPs:.

<u>Component</u>	<u>CAS-No</u>	<u>Weight %</u>	<u>HAPS data</u>
Methyl alcohol 67-56-1 ( 1-5 )	67-56-1	1-5	Present

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight %</u>	<u>Category</u>
Ethyl alcohol	64-17-5	60-100	Carcinogen
Methyl alcohol	67-56-1	1-5	Developmental

**WHMIS Hazard Class**

B2 - Flammable liquid



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 for use in diagnostic procedures.

"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 WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

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**End of Safety Data Sheet**

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