

Safety Data Sheet

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

Identification of the substance or mixture

Product code 466001

Product name LYSIS BUFFER

Company/undertaking identification

Life Technologies
5791 Van Allen Way
5250 Mainway Drive
PO Box 6482
Burlington, ONT
Carlsbad, CA 92008
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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

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

SECTION 2: Hazards identification

GHS - Classification

Signal Word WARNING



Health hazards

Acute oral toxicity	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ systemic toxicity (single exposure)	Category 3

Physical hazards

Not Hazardous

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Hazard Statements

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

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

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P273 - Avoid release to the environment

Principle Routes of Exposure

Potential Health Effects

eyes Irritating to eyes.

SkinHarmful in contact with skin.inhalationMay be harmful by inhalation.

Ingestion Harmful if swallowed.

Injection May be harmful if injected.

Specific effects

Carcinogenic effectsNoneMutagenic effectsNoneReproductive toxicityNoneSensitizationNone

Target Organ Effects None under normal use conditions

HMIS

Health	2
Flammability	0
Reactivity	0

SECTION 3: Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
Thiocyanic acid, compound with guanidine (1:1)	593-84-0	209-812-1	30-60

Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product. We recommend handling all chemicals with caution.

SECTION 4: First aid measures

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contaminated clothing and wash it before reuse. Immediate medical attention is

required.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Immediate medical attention is required.

Ingestion Call a physician or poison control center immediately. Never give anything by

mouth to an unconscious person. Do not induce vomiting without medical advice.

inhalation Remove to fresh air. If not breathing, give artificial respiration. Call a physician or

poison control center immediately.

Notes to Physician Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media Special protective equipment for firefighters Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use

personal protection equipment.

Methods for cleaning upSoak up with inert absorbent material.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for more information.

SECTION 7: Handling and storage

Handling Always wear reccommended Personal Protective Equipment. No special handling

advices are necessary.

Storage Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

SECTION 8: Exposure controls/personal protection

Exposure Limits

Product code

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Thiocyanic acid, compound with guanidine (1:1)	None	None	None	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 Goggles.

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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. Do not allow material to contaminate ground

°F No data available

°F No data available

°F No data available

°F No data available

water system.

SECTION 9: Physical and chemical properties

General information

Form Liquid

Appearance
Odor
No information available
No information available
or No data available

Melting point / melting range flash point

Autoignition Temperature
Oxidizing properties
Water solubility

°C No data available°C No data available°C No data availableNo information available

soluble

SECTION 10: Stability and reactivity

Stability Stable under normal conditions.

Materials to avoid Strong oxidizing agents. Strong acids. Cyanide compounds. Contact with acids or

bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes

containing this product.

Hazardous decomposition

products

Carbon oxides, Nitrogen Oxides. Sulphur oxides.

polymerization None under normal processing.

SECTION 11: Toxicological information

Acute Toxicity

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)	
Thiocyanic acid, compound with	593 mg/kg	No data available	No data available	
guanidine (1:1)				

Principle Routes of Exposure

Potential Health Effects

eyes Irritating to eyes

SkinHarmful in contact with skininhalationMay be harmful by inhalation

Ingestion Harmful if swallowed

Injection May be harmful if injected.

Carcinogenic effectsNoneMutagenic effectsNoneReproductive toxicityNoneSensitizationNone

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SECTION 12: Ecological information

Ecotoxicity No information available

Acute aquatic toxicity Category 3
Chronic aquatic toxicity Category 3

MobilityNo information availableBiodegradationNo information availableBioaccumulationNo information available

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
Thiocyanic acid, compound with guanidine (1:1)	Listed
593-84-0 (30-60)	

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
Thiocyanic acid, compound with guanidine (1:1)	-	-	-	-	-

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

D2B - 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

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