

Safety Data Sheet

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

Identification of the substance or mixture

Product code 10503027

Product name DNAzol® Reagent

Company/undertaking identification

Life Technologies
5791 Van Allen Way
5250 Mainway Drive
PO Box 6482
Burlington, ONT
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 WARNING



Health hazards

Skin corrosion/irritation Category 3

Physical hazards

GHS Physical Hazard 1 Flamm	able liquids
GHS Physical Hazard Category Number Category	ry 4

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Hazard Statements

H227 - Combustible liquid

H316 - Causes mild skin irritation

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

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P332 + P313 - If skin irritation occurs: Get medical advice/attention

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

Principle Routes of Exposure

Potential Health Effects

May cause eye irritation with susceptible persons. eyes

Skin Mild skin irritation.

inhalation May cause irritation of respiratory tract.

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

Specific effects

Carcinogenic effects None. **Mutagenic effects** None. Reproductive toxicity None. Sensitization None.

No known effects under normal use conditions. **Target Organ Effects**

HMIS

Health	1
Flammability	2
Reactivity	0

SECTION 3:	Composition/informa	tion on ingredients

Chemical Name		CAS-No	EINECS-No	Weight %	
	Guanidine isothiocyanate	593-84-0	209-812-1	40-70	

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

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

minutes.

Never give anything by mouth to an unconscious person. Ingestion

inhalation Remove to fresh air.

Most important symptoms and effects, both acute and delayed

H227 - Combustible liquid, H316 - Causes mild skin irritation

Notes to Physician Treat symptomatically.

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SECTION 5: Firefighting measures

Suitable extinguishing media Water spray, carbon dioxide (CO2), dry chemical,

alcohol-resistant foam.

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

suit.

Specific hazards arising from the chemical Not known

Australia HazChem Code 2YE

SECTION 6: Accidental release measures

Personal precautions
Methods for cleaning up

Remove all sources of ignition.

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 reccommended 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)	
Guanidine isothiocyanate	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 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.

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SECTION 9: Physical and chemical properties

General information

Form Liquid

Appearance
Odor
Odor Threshold
Boiling point / boiling range
No information available
Mixture has not been tested
Mixture has not been tested
C No data available

°C No data available

No data available

Boiling point / boiling range Melting point / melting range

flash point °C 67

Autoignition Temperature

Evaporation rate
Flammability (solid, gas)

Oxidizing properties

°C No data available
No data available
Mixture has not been tested

Oxidizing properties Mixture Water solubility soluble

Upper explosion limitNo data availableLower explosion limitNo data available

Partition coefficient: n-octanol/water

Vapor Pressure

Vapor density

No data available

No data available

vapor densityNo data availableViscosityMixture has not been tested

pH value 8.5

°F No data available°F No data available

°**F** 152.6

°F No data available

SECTION 10: Stability and reactivity

Stability Stable under normal conditions.

Materials to avoid Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach

to any liquid wastes containing this product.

Possibility of hazardous

reactions

Hazardous reaction has not been reported

Hazardous decomposition

products

Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Cyanide

compounds. Sulphur oxides.

polymerization Hazardous polymerization does not occur.

Conditions to avoid None under normal processing.

SECTION 11: Toxicological information

Acute Toxicity

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)	
Guanidine isothiocyanate	764mg/kg	2000 mg/kg	5.319 mg/L (4H)	

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Principle Routes of Exposure

Potential Health Effects

eyes May cause eye irritation with susceptible persons.

Skin Mild skin irritation.

inhalation May cause irritation of respiratory tract.

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

Carcinogenic effectsNone.Mutagenic effectsNone.Reproductive toxicityNone.SensitizationNone.

Target Organ Effects No known effects under normal use conditions

SECTION 12: Ecological information

EcotoxicityContains no substances known to be hazardous to the environment or not

degradable in waste water treatment plants.

MobilityNo information available.BiodegradationNo information available.BioaccumulationNo 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 ClassNoneSubsidiary classNonePacking groupNoneUN-NoNoneEnvironmental hazardsNone

SECTION 15: Regulatory information

Component	US TSCA	
Guanidine isothiocyanate	Listed	
593-84-0 (40-70)		

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
I	Guanidine isothiocyanate	-	-	-	-	-

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

B3 - Combustible 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.

"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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