

Safety Data Sheet

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

Identification of the substance or mixture

Product code21028Product nameELUTION BUFFER PH 2.0, 1L.

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

Thermo Fisher Scientific Pierce Biotechnology P.O. Box 117 Rockford, IL 61105 United States 1.815.968.0747 or 1.800.874.3723

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)

Use as laboratory reagent. Scientific research and development.

SECTION 2: Hazards identification

GHS - Classification

Signal Word WARNING



Health hazards

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

Physical hazards

Not classified

Hazard Statements

H315 - Causes skin irritation H319 - Causes serious eye irritation

Precautionary Statements

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
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P337 + P313 - If eye irritation persists: Get medical advice/attention
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P264 - Wash hands thoroughly after handling

Principle Routes of Exposure	
Potential Health Effects	
eyes	Irritating to eyes.
Skin	Irritating to skin.
inhalation	May cause irritation of respiratory tract.
Ingestion	May be harmful if swallowed.
Specific effects	
Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	Not Applicable.
Target Organ Effects	None under normal use conditions.

HMIS

Health	2
Flammability	0
Reactivity	0

SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
Hydrogen chloride	7647-01-0	-	3-5
7647-01-0 (3-5)			

We recommend handling all chemicals with caution.

		SECTION 4: First aid measures
Skin contact		Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing and wash it before reuse. Immediate medical attention is required.
I I I I I I I I I I I I I I I I I I I		Rinse immediately with plenty of water, also under the eyelids, for at least 15
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	 minutes. Immediate medical attention is required. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately. Ind effects, both acute and delayed 319 - Causes serious eye irritation 		
Notes to Physician	Treat symptomatically		
	SECTION 5: Fire	fighting measures	
Special protective equipment for firefighters W		Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Wear self-contained breathing apparatus and protective suit.	
Specific hazards arising from the	e chemical	Not known	
	SECTION 6: Accidental release measures		

Personal precautions	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use
Methods for cleaning up	personal protection equipment. Soak up with inert absorbent material.

Environmental precautions

No special environmental precautions required.

See Section 12 for more information.

SECTION 7: Handling and storage

HandlingAlways wear reccommended Personal Protective Equipment. No special handling
advices are necessary.StorageKeep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

SECTION 8: Exposure controls/personal protection

Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Hydrogen chloride	None	5 ppm	None	None
		7 mg/m³		

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 protectionIn case of insufficient ventilation, wear suitable respiratory equipment.Hand protectionImpervious gloves.

	impervieue gievee.
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

Form Appearance Odor Odor Threshold Boiling point / boiling range Melting point / melting range flash point Autoignition Temperature Evaporation rate Flammability (solid, gas) Oxidizing properties Water solubility Upper explosion limit	Liquid No information available Mixture has not been tested Mixture has not been tested °C No data available °C No data available °C No data available °C No data available No data available No data available Mixture has not been tested No data available No data available No data available	 °F No data available °F No data available °F No data available °F No data available 	
Lower explosion limit Partition coefficient: n-octanol/water Vapor Pressure vapor density Viscosity	No data available No data available No data available No data available Mixture has not been tested		
pH value	No data available		
	SECTION 10: Stability and read	ctivity	
Stability	Stable under normal conditions.		
Materials to avoid	No information available.		
Possibility of hazardous reactions	Hazardous reaction has not been reported		
Hazardous decomposition	No information available.		

polymerization Hazardous polymerization does not occur.

Conditions to avoid None under normal processing.

SECTION 11: Toxicological information

Acute Toxicity

products

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Hydrogen chloride	238 - 277 mg/kg (Rat)	No data available	=1.68mg/L(Rat)

Principle Routes of Exposure

Potential Health Effects eyes Skin inhalation Ingestion	Irritating to eyes. Irritating to skin. May cause irritation of respiratory tract. May be harmful if swallowed.
Carcinogenic effects Mutagenic effects Reproductive toxicity Sensitization	None. None. None. No information available.
Target Organ Effects	None under normal use conditions
	SECTION 12: Ecological information

EcotoxicityCMobilityMBiodegradationMBioaccumulationM

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. No information available. No information available. No information available.

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

<u>IATA</u>

Proper Shipping Name	No dangerous good in sense of these transport regulations		
Hazard Class	None		
Subsidiary class	None		
Packing group	None		
UN-No	None		
Environmental hazards	None		

SECTION 15: Regulatory information

Component	US TSCA
Hydrogen chloride	Listed
7647-01-0 (3-5)	

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:.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Hydrogen chloride	7647-01-0	3-5	1.0

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

This product contains the following HAPs:.

Component	CAS-No	Weight %	HAPS data
Hydrogen chloride	7647-01-0	3-5	Present
7647-01-0 (3-5)			

US State Regulations

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.

Use as laboratory reagent. Scientific research and development.

"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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