

Safety Data Sheet

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

Identification of the substance or mixture

Product code	1856007
Product name	Phenol Reagent

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 for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and +1[or Dangerous Goods] Incident. Spill, Leak, Fire,
Exposure, or Accident. Call CHEMTREC703-527-3887
Outside the USA + Canada: +1 703-741-5970

Country Specific Emergency Number (if available):

Use as laboratory reagent Scientific research and development

SECTION 2: Hazards identification

GHS - Classification

Signal Word DANGER

Hazard pictograms



Health hazards

noalth hazardo	
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Physical hazards

GHS Physical Hazard	Substances/mixtures corrosive to metal
GHS Physical Hazard Category Number	Category 1

Environmental hazards

Not classified

Hazard Statements

H290 - May be corrosive to metals H314 - Causes severe skin burns and eye damage

Precautionary Statements

Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection P234 - Keep only in original container

P264 - Wash hands thoroughly after handling

Response

P390 - Absorb spillage to prevent material damage
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P363 - Wash contaminated clothing before reuse
P311 - Call a POISON CENTER or doctor
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

Storage

P406 - Store in corrosion resistant container with a resistant inner liner

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards

Not Applicable

HMIS

Health	3
Flammability	0

	Reactivity	0	
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SECTION 3: Composition/information on ingredients

Component	CAS No.	Common name	EINECS-No	Weight-%
Tungstate (WO42-),disodium, dihydrate,(T-4)- 10213-10-2 (1-3)	10213-10-2	-	-	1-3
Hydrogen chloride 7647-01-0(3-5)	7647-01-0	-	231-595-7	3-5
Phosphoric acid 7664-38-2(<10)	7664-38-2	-	231-633-2	<10
lithium sulphate 10377-48-7 (7-25)	10377-48-7	-	-	7-25

We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Description of first aid measures

Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. 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	Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.
Notes to Physician	Treat symptomatically.

Most important symptoms and effects, both acute and delayed

H290 - May be corrosive to metals H314 - Causes severe skin burns and eye damage

Indication of any immediate medical attention and special treatment needed None.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO2). Foam. Dry chemical. No information available.

Special hazards arising from the substance or mixture Not known.

Advice for fire-fighters

Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation Avoid contact with skin, eyes or clothing Use personal protection equipment See Section 8 for more detail

Environmental precautions

No special environmental precautions required.

Methods and material for containment and cleaning up

Soak up with inert absorbent material.

Reference to other sections

See section 8 for more information.

SECTION 7: Handling and storage

Precautions for safe handling

Always wear recommended Personal Protective Equipment. See Section 8 for more detail. Do not get in eyes, on skin, or on clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store in accordance with local regulations.

Specific end use(s)

Use as laboratory reagent. Scientific research and development.

SECTION 8: Exposure controls/personal protection

Control parameters

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Tungstate (WO42-),disodium, dihydrate.(T-4)-	None	None	3 mg/m³	None
Hydrogen chloride	None	5 ppm 7 mg/m³	None	None
Phosphoric acid	1 mg/m ³	None	1 mg/m ³	3 mg/m ³
lithium sulphate	None	None	None	None

Chemical Name	Brazil - OEL - TWAs (LTs)	Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations
Tungstate (WO42-), disodium,	None	None	None
dihydrate,(T-4)-			
Hydrogen chloride	None	4 ppm	None
		5.5 mg/m ³	
Phosphoric acid	None	None	None
lithium sulphate	None	None	None

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Exposure controls

Respiratory protection	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
Hand protection	Glove material:. Nitrile rubber. with thickness (mm). :5. Break through time. (hours). :1. Recommended glove type has not been tested for use with product. Information is based on professional Knowledge.
Eye protection	Tight sealing safety goggles.
Skin and Body Protection	Wear laboratory coat for body protection.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

Personal Protective Equipment

No special environmental precautions required.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance Color Odor Odor Threshold pH Melting point / melting range Boiling point / boiling range Flash point Autoignition Temperature Decomposition temperature Evaporation rate Flammability (solid, gas) Upper explosion limit Lower explosion limit Vapor Pressure Palative density	liquid yellow pungent Mixture has not been tested <0.5 °C Mixture has not been tested °C Mixture has not been tested No data Not Applicable Mixture has not been tested Mixture has not been tested Mixture has not been tested	 °F Mixture has not been tested
Relative density	Mixture has not been tested	
Specific gravity	No data	
Solubility	Mixture has not been tested	
Partition coefficient:	No data	
n-octanol/water		
Viscosity	Mixture has not been tested	
Explosive properties	Mixture has not been tested	
Oxidizing properties	Mixture has not been tested	

Other information No data.

Revision date

Product code

SECTION 10: Stability and reactivity

Reactivity	None known.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous reaction has not been reported.
Conditions to avoid	No information available.
Incompatible materials	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	No known hazardous decomposition products.

SECTION 11: Toxicological information

Information on toxicological effects

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Tungstate (WO42-),disodium, dihydrate,(T-4)-	= 1190 mg/kg (Rat)	No data available	No data available
Hydrogen chloride	238 - 277 mg/kg (Rat)	No data available	=1.68mg/L(Rat)
Phosphoric acid	= 1530 mg/kg (Rat)	No data available	>850mg/m3(Rat)
lithium sulphate	= 1190 mg/kg (Mouse) = 613 mg/kg (Rat)	No data available	No data available

Principal Routes of Exposure

Skin corrosion/irritation Conclusive but not sufficient for classification

Serious eye damage/irritation Causes serious eye damage

Respiratory or skin	Conclusive but not sufficient for classification
sensitization	

Specific target organ toxicity Conclusive but not sufficient for classification **(STOT) – single exposure**

Specific target organ toxicity Conclusive but not sufficient for classification **(STOT) – repeated exposure**

Carcinogenicity	Conclusive but not sufficient for classification
Germ cell mutagenicity	Conclusive but not sufficient for classification
Reproductive toxicity	Conclusive but not sufficient for classification
Aspiration hazard	Conclusive but not sufficient for classification

SECTION 12: Ecological information

Toxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Tungstate (WO42-),disodium, dihydrate,(T-4)-	No data available	No data available	No data available	No data available	No data available
Hydrogen chloride	No data available	No data available	No data available	No data available	No data available
Phosphoric acid	No data available	Daphnia magna EC50=4.6 mg/L (12 h)	No data available	No data available	No data available
lithium sulphate	No data available	No data available	No data available	No data available	No data available

Persistence and degradability	No information available.
	no information available.

Bioaccumulative potential No information available.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available.

SECTION 13: Disposal considerations

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

SECTION 14: Transport information

IATA / ADR / DOT-US / IMDG

Classified as dangerous in the meaning of transport regulations

UN number	UN3264
UN proper shipping name	Corrosive liquid, Acidic, Inorganic, n.o.
	s. (Hydrogen chloride, Phosphoric acid)
Transport hazard class(es)	8
Packing group	III

Environmental hazards Not Applicable

Special precautions for user Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable.

SECTION 15: Regulatory information

Component	US TSCA
Tungstate (WO42-), disodium, dihydrate, (T-4)-	-
10213-10-2 (1-3)	
Hydrogen chloride	Listed
7647-01-0(3-5)	
Phosphoric acid	Listed
7664-38-2(<10)	
lithium sulphate	Listed
10377-48-7 (7-25)	

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 E - Corrosive material



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

National Regulations - Brazil

Chemical Name	CAS No.	Brazil - National Agency for Sanitary Surveillance (ANVISA)	Brazil - National List of Carcinogen Agents to Humans (LINACH)
Tungstate (WO42-),disodium,	10213-10-2	Not Listed	Not Listed

dihydrate,(T-4)-			
Hydrogen chloride	7647-01-0	Schedule D2	Not Listed
Phosphoric acid	7664-38-2	Not Listed	Not Listed
lithium sulphate	10377-48-7	Not Listed	Not Listed

CECTION	1/. Other	information
SECTION	To: Uther	information

Reason for revision	SDS sections updated.
Revision number	6
Revision date	27-Mar-2019

Use as laboratory reagent. Scientific research and development.

References

- ECHA: http://echa.europa.eu/
- TOXNET: http://toxnet.nlm.nih.gov/
- eChemPortal: http://www.echemportal.org/
- · LOLI database: https://www.chemadvisor.com/loli-database

"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"

End of Safety Data Sheet