

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

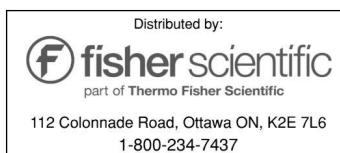
Product code 89965
Product name HisPur™ Cobalt Resin

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**

DANGER

**Health hazards**

Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1B

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Physical hazards

GHS Physical Hazard 1	Flammable liquids
GHS Physical Hazard Category Number	Category 3

Hazard Statements

H226 - Flammable liquid and vapor
H350 - May cause cancer
H360F - May damage fertility
H411 - Toxic to aquatic life with long lasting effects

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
P201 - Obtain special instructions before use
P273 - Avoid release to the environment
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P280 - Wear protective gloves/protective clothing/eye protection/face protection

Principle Routes of Exposure

Potential Health Effects

eyes May cause eye irritation with susceptible persons.
Skin May be harmful in contact with skin.
inhalation May cause irritation of respiratory tract.
Ingestion May be harmful if swallowed.

Specific effects

Carcinogenic effects May cause cancer.
Mutagenic effects None.
Reproductive toxicity May cause harm to the unborn child.
Sensitization None.

Target Organ Effects None under normal use conditions.

HMIS

Health	4 * Chronic Hazard
Flammability	3
Reactivity	0

SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
Cobalt(II) chloride hexahydrate 7791-13-1 (0.5-1)	7791-13-1	-	0.5-1

We recommend handling all chemicals with caution.

SECTION 4: First aid measures

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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.

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.

Most important symptoms and effects, both acute and delayed

H226 - Flammable liquid and vapor, H350 - May cause cancer, H360F - May damage fertility, H411 - Toxic to aquatic life with long lasting effects

Notes to Physician Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media Water spray. Carbon dioxide (CO2). Foam. 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 Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection equipment.

Methods for cleaning up Soak 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 recommended 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

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Cobalt(II) chloride hexahydrate	None	None	0.02 mg/m ³	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
Eye protection
Skin and Body Protection
Hygiene measures

Impervious gloves.
Wear safety glasses with side shields (or goggles).
Lightweight protective clothing.
Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

Prevent product from entering drains. Should not be released into the environment.

SECTION 9: Physical and chemical properties

General information

Form	Liquid	
Appearance	No information available	
Odor	Mixture has not been tested	
Odor Threshold	Mixture has not been tested	
Boiling point / boiling range	°C No data available	°F No data available
Melting point / melting range	°C No data available	°F No data available
flash point	°C 32.222	°F 89.996
Autoignition Temperature	°C No data available	°F No data available
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Oxidizing properties	Mixture has not been tested	
Water solubility	No data available	
Upper explosion limit	No data available	
Lower explosion limit	No data available	
Partition coefficient: n-octanol/water	No data available	
Vapor Pressure	No data available	
vapor density	No data available	
Viscosity	Mixture has not been tested	
pH value	No data available	

SECTION 10: Stability and reactivity

Stability	Stable under normal conditions.
Materials to avoid	No information available.
Possibility of hazardous reactions	Hazardous reaction has not been reported
Hazardous decomposition products	No information available.
polymerization	None under normal processing.
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)
Cobalt(II) chloride hexahydrate	= 766 mg/kg (Rat) = 80 mg/kg (Rat)	No data available	No data available

Principle Routes of Exposure

Potential Health Effects

eyes	May cause eye irritation with susceptible persons.
Skin	May be harmful in contact with skin.
inhalation	May cause irritation of respiratory tract.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	May cause cancer.
Mutagenic effects	None.
Reproductive toxicity	May cause harm to the unborn child.
Sensitization	None.
Target Organ Effects	None under normal use conditions

SECTION 12: Ecological information

Ecotoxicity	Hazardous to the Aquatic Environment.
Chronic aquatic toxicity	Category 2.
Mobility	No information available.
Biodegradation	No information available.
Bioaccumulation	No information available.

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

Proper Shipping Name	Flammable liquids, n.o.s. (ethanol, mixture)
Hazard Class	3
Subsidiary class	None
Packing group	III
UN-No	UN1993
Environmental hazards	No

SECTION 15: Regulatory information

Component	US TSCA
Cobalt(II) chloride hexahydrate 7791-13-1 (0.5-1)	-

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 repackaging, 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>
Cobalt(II) chloride hexahydrate	7791-13-1	0.5-1	0.1

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>
Cobalt(II) chloride hexahydrate 7791-13-1 (0.5-1)	7791-13-1	0.5-1	Present (including any unique chemical substance that contains Cobalt as part of its infrastructure)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

B3 - Combustible liquid

D2A - Very 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 WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"

End of Safety Data Sheet

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