

Safety Data Sheet

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

Identification of the substance or mixture

Product code 1856006

Product name Assay 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, 703-527-3887

Exposure, or Accident. Call CHEMTRECOutside 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 WARNING

Hazard pictograms

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Health hazards

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

Physical hazards

Not classified

Environmental hazards

Not classified

Hazard Statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

Precautionary Statements

Prevention

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

P264 - Wash hands thoroughly after handling

Response

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

P362 + P364 - Take off all contaminated clothing and wash it before reuse

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

Storage

Not Applicable

Disposal

Not Applicable

Other hazards

Not Applicable

HMIS

<u> </u>	
Health	2
Flammability	0
Reactivity	0

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SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
Cupric sulfate 5H2O	7758-99-8	-	<0.1
7758-99-8 (<0.1)			
Sodium carbonate	497-19-8	207-838-8	1-5
497-19-8 (1-5)			

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

H315 - Causes skin irritation H319 - Causes serious eye irritation

Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media

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Water spray. Carbon dioxide (CO2). Foam. Dry chemical. No information available.

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Special hazards arising from the substance or mixture

Not known

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Advice for fire-fighters

Wear self-contained breathing apparatus and protective suit

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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)
Cupric sulfate 5H2O	None	None	1 mg/m³	None
Sodium carbonate	None	None	None	None

Chemical Name	Brazil - OEL - TWAs (LTs)	Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations
Cupric sulfate 5H2O	None	None	None
Sodium carbonate	None	None	None

Engineering measures Ensure adequate ventilation, especially in confined areas.

Exposure controls

Personal Protective Equipment

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.

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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.

Handle in accordance with good industrial hygiene and safety practice **Hygiene Measures**

Environmental exposure controls

No special environmental precautions required.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance liquid Color liaht blue

Odor Mixture has not been tested **Odor Threshold** Mixture has not been tested Hq

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 Relative density Specific gravity

Solubility

Partition coefficient:

n-octanol/water

Viscosity Explosive properties Oxidizing properties

Other information No data available.

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°C Mixture has not been tested °C Mixture has not been tested

°C Mixture has not been tested °C Mixture has not been tested

°C Mixture has not been tested

No data available Not Applicable

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°F Mixture has not been tested

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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 avoidNo information available.

Incompatible materialsNo 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	Chemical Name LD50 (oral,rat/mouse)		LC50 (inhalation,rat/mouse)
Cupric sulfate 5H2O	= 960 mg/kg (Rat) = 300 mg/kg (Rat)	No data available	No data available
Sodium carbonate	= 4090 mg/kg (Rat)	No data available	No data available

Principal Routes of Exposure

Irritation Skin irritation Irritating to eyes

Corrosivity Conclusive but not sufficient for classification

Sensitization Conclusive but not sufficient for classification

STOT - Single Exposure Conclusive but not sufficient for classification

STOT - Repeated Exposure Conclusive but not sufficient for classification

Carcinogenicity Conclusive but not sufficient for classification

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	Water Flea Data	Freshwater Fish	Microtox Data	log Pow
	Data		Species Data		
Cupric sulfate 5H2O	No data available	Daphnia magna	No data available	No data available	No data available
		EC500.0058 - 0.0073			
		mg/L (48 h) Daphnia			
		magna EC500.147 -			
		0.227 mg/L (48 h)			
Sodium carbonate	Nitzschia EC50=242	Daphnia magna	No data available	No data available	No data available
	mg/L (120 h)	EC50=265 mg/L (48			
	- ` ′	h)			

Persistence and degradability 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

Not regulated in the meaning of transport regulations.

UN number
UN proper shipping name
Transport hazard class(es)
Packing group

Not Applicable
Not Applicable
Not Applicable

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.

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SECTION 15: Regulatory information

Component	US TSCA
Cupric sulfate 5H2O	-
7758-99-8 (<0.1)	
Sodium carbonate	Listed
497-19-8 (1-5)	

US Federal Regulations

SARA 313

This product is not regulated by SARA.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold
			<u>Values</u>
Cupric sulfate 5H2O	7758-99-8	<0.1	1.0

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

This product does not contains HAPs.

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 SDS contains all the information required by the CPR.

National Regulations - Brazil

<u>Chemical Name</u>	CAS-No_	Brazil - National Agency for Sanitary Surveillance (ANVISA)	Brazil - National List of Carcinogen Agents to Humans (LINACH)
Cupric sulfate 5H2O	7758-99-8	Not Listed	Not Listed
Sodium carbonate	497-19-8	Not Listed	Not Listed

SECTION 16: Other information

Reason for revision SDS sections updated.

Revision number 4

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Use as laboratory reagent. Scientific research and development.

References

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

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End of Safety Data Sheet

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