

Material Safety Data Sheet

Creation Date 08-Apr-2010 Revision Date 08-Apr-2010 Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Pacific Hemostasis® Kontact APTT Reagent

Cat No. 100308, 100312, 200308, 200312, 250308, 250312

Synonyms No information available.

Recommended Use In vitro diagnostic

Company
Fisher Diagnostics
A Division of Fisher Scientific Company, LLC

Emergency Telephone Number
Chemtrec US: (800) 424-9300
Chemtrec EU: (202) 483-7616

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8365 Valley Pike

Middletown, VA 22645-1905

Tel: (800) 528-0494

2. HAZARDS IDENTIFICATION

CAUTION!

Emergency Overview

May cause eye, skin, and respiratory tract irritation. The toxicological properties have not been fully investigated.

Appearance Grey Cloudy Physical State Liquid odor odorless

Target Organs None known.

Potential Health Effects

Acute Effects

Principle Routes of Exposure

Eyes May cause irritation.

Skin May cause irritation. May be harmful in contact with skin.

Inhalation May cause irritation of respiratory tract. May be harmful if inhaled.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting

and diarrhea.

Chronic Effects None known.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

Component	CAS-No	Weight %
Polyethylene glycol	25322-68-3	< 1%
Ethylenediaminetetraacetic acid, disodium salt dihydrate	6381-92-6	< 0.5%
Water	7732-18-5	> 90%
Phenol	108-95-2	< 1%
Rabbit Brain Phospholipid	NA	< 5 %
BSA Fraction V	9048-46-1	< 1%
Hydrogen chloride	7647-01-0	< 0.5%
2,4,6(1H,3H,5H)-Pyrimidinetrione, 5,5-diethyl-, monosodium salt	144-02-5	< 1%
Magnesium aluminum silicate	NA	< 1%
HEPES	7365-45-9	< 1%

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Inhalation Move to fresh air. Get medical attention immediately if symptoms occur.

Ingestion Do not induce vomiting. Obtain medical attention.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point Not applicable

Method No information available.

Autoignition Temperature No information available.

Explosion Limits
Upper

UpperNo data availableLowerNo data available

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to

extinguish surrounding fire..

Unsuitable Extinguishing Media No information available.

Hazardous Combustion Products

No information available.

Sensitivity to mechanical impactNo information available.Sensitivity to static dischargeNo information available.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA Health 1 Flammability 0 Instability 0 Physical hazards N/A

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes

and clothing.

Environmental Precautions Should not be released into the environment.

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable and closed containers for disposal.

Up

7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Ensure adequate ventilation. Do not breathe vapors or

spray mist. Avoid contact with skin, eyes and clothing.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperatures

between 2° and 8 °C. Do not freeze.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and

safety showers are close to the workstation location.

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phenol	TWA: 5 ppm	(Vacated) TWA: 5 ppm	IDLH: 250 ppm
	Skin	(Vacated) TWA: 19 mg/m ³	TWA: 5 ppm
		Skin	TWA: 19 mg/m ³
		TWA: 5 ppm	Ceiling: 60 mg/m ³
		TWA: 19 mg/m ³	Ceiling: 15.6 ppm
Hydrogen chloride	Ceiling: 2 ppm	Ceiling: 7 mg/m ³	IDLH: 50 ppm
		Ceiling: 5 ppm	Ceiling: 5 ppm
		(Vacated) Ceiling: 5 ppm	Ceiling: 7 mg/m ³
		(Vacated) Ceiling: 7 mg/m ³	-
		Ceiling: 7 mg/m ³	

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Phenol	TWA: 19 mg/m ³	TWA: 19 mg/m ³	TWA: 19 mg/m ³
	TWA: 5 ppm	TWA: 5 ppm	TWA: 5 ppm
	Skin	STEL: 10 ppm	Skin
		STEL: 38 mg/m ³	

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Hydrogen chloride	Ceiling: 7.5 mg/m ³	Peak: 7 mg/m ³	CEV: 2 ppm
	Ceiling: 5 ppm	Peak: 5 ppm	

NIOSH IDLH: Immediately Dangerous to Life or Health

Personal Protective Equipment

Eye/face ProtectionWear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory ProtectionFollow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StateLiquidAppearanceGrey Cloudyodorodorless

Odor Threshold No information available.

pH 6.6 - 7.0

Vapor PressureNo information available.Vapor DensityNo information available.ViscosityNo information available.Boiling Point/RangeNo information available.Melting Point/RangeNo information available.Decomposition temperature °CNo information available.

Flash Point Not applicable

Evaporation Rate
Specific Gravity
No information available.
Solubility
No information available.
No information available.
No data available.
No data available

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Conditions to Avoid Excess heat.

Incompatible Materials None known

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and

vapors

Hazardous Polymerization Hazardous polymerization does not occur

Hazardous Reactions. None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Polyethylene glycol	28 g/kg (Rat)	20 g/kg (Rabbit)	Not listed
Phenol	317 mg/kg (Rat)	525 mg/kg (Rat)	316 mg/m ³ (Rat) 4 h
		630 mg/kg (Rabbit)	
Hydrogen chloride	700 mg/kg (Rat)	5010 mg/kg (Rabbit)	3124 ppm (Rat) 1 h
2,4,6(1H,3H,5H)-Pyrimidinetrione,	600 mg/kg (Rat)	Not listed	Not listed
5,5-diethyl-, monosodium salt			

Irritation No information available.

Toxicologically Synergistic

Products

No information available.

Chronic Toxicity

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Mexico	
Hydrogen chloride	Not listed	group 3	Not listed	Not listed	Not listed	

IARC: (International Agency for Research on Cancer)

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

Sensitization No information available.

Mutagenic Effects No information available.

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

Other Adverse Effects The toxicological properties have not been fully investigated.. See actual entry in RTECS for

complete information.

Endocrine Disruptor Information No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Polyethylene glycol	Not listed	LC50 = 10 g/L/96h	Not listed	Not listed

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Phenol	EC50 96 h 46.42 mg/L	Not listed	EC50 21 - 36 mg/L 30 min	EC50 48 h 23.0 mg/L
	EC50 96 h 0.0188 - 0.1044		EC50 = 23.28 mg/L 5 min	LC50 48 h 13 mg/L
	mg/L		EC50 = 25.61 mg/L 15 min	EC50 48 h 23.0 mg/L
	EC50 72 h 187 - 279 mg/L		EC50 = 28.8 mg/L 5 min	
	EC50 96 h 46.42 mg/L		EC50 = 31.6 mg/L 15 min	

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available

Mobility .

Component	log Pow
Water	-1.87
Phenol	1.47

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

Component		RCRA - U Series Wastes	RCRA - P Series Wastes		
ſ	Phenol - 108-95-2	U188	=		

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	NDSL	EINECS ELINCS	NLP	PICCS	FNCS	AICS	CHINA	KECL
Component								,	• • • • • • • •	

	15. REGULATORY INFORMATION										
Polyethylene glycol	XU	Х	-	-	-	>1<4.5 mol ethoxylat ed units, consistin g of 50% w/w or more of species of the same molecula r weight		X	X	X	KE- 20228 X
Ethylenediaminetetraacetic acid, disodium salt dihydrate	-	X	-	-	-		Х	Х	Х	X	-
Water	Х	Х	-	231-791- 2	-		Х	-	Х	Х	Х
Phenol	Х	Х	-	203-632- 7	-		Х	Х	Х	Х	KE- 28209 X
Hydrogen chloride	Т	Х	-	231-595- 7	-		Х	Х	Х	Х	KE- 20189 X
2,4,6(1H,3H,5H)- Pyrimidinetrione, 5,5-diethyl-, monosodium salt	1	X	-	205-613- 9	-		Х	Х	Х	Х	KE- 10520 X
HEPES	Х	Х	-	230-907- 9	-		Х	-	Х	Х	-

Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Phenol	108-95-2	< 1%	1.0
Hydrogen chloride	7647-01-0	< 0.5%	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Phenol	X	1000 lb	X	X
Hydrogen chloride	X	5000 lb	-	-

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Phenol	X		-
Hydrogen chloride	X		-

OSHA

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Hydrogen chloride	-	TQ: 5000 lb

CFRCI A

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs	
Phenol	1000 lb	1000 lb	
Hydrogen chloride	5000 lb	5000 lb	

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Phenol	X	X	X	Х	X
Hydrogen chloride	Х	X	X	Х	Х

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product contains the following DHS chemicals:

Component	DHS Chemical Facility Anti-Terrorism Standard
Hydrogen chloride	0 lb STQ (anhydrous); 11250 lb STQ (37% concentration or greater)

Other International Regulations

Mexico - Grade No information available

Canada

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.

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION

Prepared By Regulatory Affairs

Thermo Fisher Scientific Tel: (412) 490-8929

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Revision Summary "***", and red text indicates revision

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS