	<b>SDS Safety Data Sheet</b>				<b>STATUS</b>	<b>Controlled</b>
	<b>SDS No</b>	SDS-59	<b>REV</b>	01	<b>ECO</b>	1329
	<b>Last Review Date</b>	09/15/15			Page 1 of 7	
	<b>Product Name</b>	Celite Protamine Dose Assay Tube				

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

### 1.1. Product identifier

Product form : Article  
Name : Celite Protamine Dose Assay Tube  
Product code : PDAO, R-PRT200, R-PRT400

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use  
Industrial/Professional use spec : Industrial  
For professional use only

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Accriva Diagnostics Inc  
6260 Sequence Dr  
CA 92121 San Diego  
T (800)5792255 - F 1-858-314-6701  
customerservice@accriva.com - <http://www.accriva.com/>

### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
UNITED KINGDOM	National Poisons Information Service (NHS Direct)	<a href="http://www.npis.org">http://www.npis.org</a>	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)
US			911

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

STOT RE 2 H373

Full text of H-statements: see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R48/20

Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :




GHS08

Signal word (CLP) : Warning  
Hazardous ingredients : Silicon dioxide, cristobalite, conc respirable crystalline silica >=10%  
Hazard statements (CLP) : H373 - May cause damage to organs through prolonged or repeated exposure  
Precautionary statements (CLP) : P260 - Do not breathe dust  
P314 - Get medical advice/attention if you feel unwell  
P501 - Dispose of contents/container to a licensed waste centre in accordance with local/regional/national/international regulations

### 2.3. Other hazards

No additional information available

	<b>SDS Safety Data Sheet</b>				<b>STATUS</b>	<b>Controlled</b>
	<b>SDS No</b>	SDS-59	<b>REV</b>	01	<b>ECO</b>	1329
	<b>Last Review Date</b>	09/15/15			Page 2 of 7	
	<b>Product Name</b>	Celite Protamine Dose Assay Tube				

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Silicon dioxide	(CAS No) 14808-60-7 (EC no) 238-878-4	< 30	Xn; R48/20
crystalite, conc respirable crystalline silica>=10%	(CAS No) 14464-46-1 (EC no) 238-455-4	< 30	Xn; R48/20
sodium chloride substance with national workplace exposure limit(s) (LT, LV)	(CAS No) 7647-14-5 (EC no) 231-598-3	< 30	Not classified

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Silicon dioxide	(CAS No) 14808-60-7 (EC no) 238-878-4	< 30	STOT RE 2, H373
crystalite, conc respirable crystalline silica>=10%	(CAS No) 14464-46-1 (EC no) 238-455-4	< 30	STOT RE 2, H373
sodium chloride substance with national workplace exposure limit(s) (LT, LV)	(CAS No) 7647-14-5 (EC no) 231-598-3	< 30	Not classified

Full text of R- and H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Allow breathing of fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes damage to organs.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures


##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

	<b>SDS Safety Data Sheet</b>				<b>STATUS</b>	<b>Controlled</b>
	<b>SDS No</b>	SDS-59	<b>REV</b>	01	<b>ECO</b>	1329
	<b>Last Review Date</b>	09/15/15			Page 3 of 7	
	<b>Product Name</b>	Celite Protamine Dose Assay Tube				

## 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if substance enters sewers or public waters.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

## 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing fume, Vapours.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat and ignition sources.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.


## 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

Silicon dioxide (14808-60-7)		
Austria	MAK (mg/m <sup>3</sup> )	0,15 mg/m <sup>3</sup>
Belgium	Limit value (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
France	VME (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0,025 mg/m <sup>3</sup> (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)
USA OSHA	Remark (OSHA)	(3) See Table Z-3.
Spain	VLA-ED (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup> d (Véase UNE EN 481: Atmósferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles.), y (Reclasificado, por la International Agency for Research on Cancer (IARC) de grupo 2A (probablemente carcinogénico en humanos) a grupo 1 (carcinogénico en humanos).), n (En trabajos de minería véase la Orden ITC 2585/2007, de 30 de agosto (BOE nº 315 de 7 de septiembre de 2007), por la que se aprueba la Instrucción Técnica Complementaria 2.0.02 del Reglamento General de Normas Básicas de Seguridad Minera.)
Switzerland	VME (mg/m <sup>3</sup> )	0,15 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0,075 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> Silica, respirable crystalline; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Lithuania	IPRV (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Portugal	OEL TWA (mg/m <sup>3</sup> )	0,025 mg/m <sup>3</sup>
cristobalite, conc respirable crystalline silica >=10% (14464-46-1)		
Belgium	Limit value (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup> (Silices cristallines : cristobalite (poussières alvéolaires); Belgium; Time-weighted average exposure limit 8 h)

	<b>SDS Safety Data Sheet</b>				<b>STATUS</b>	<b>Controlled</b>
	<b>SDS No</b>	SDS-59	<b>REV</b>	01	<b>ECO</b>	1329
	<b>Last Review Date</b>	09/15/15			Page 4 of 7	
	<b>Product Name</b>	Celite Protamine Dose Assay Tube				

cristobalite, conc respirable crystalline silica >=10% (14464-46-1)		
France	VME (mg/m <sup>3</sup> )	0,05 mg/m <sup>3</sup> (Silices cristallines cristobalite, fraction alvéolaire; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0,025 mg/m <sup>3</sup> (Silica-Crystalline Cristobalite; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0,075 mg/m <sup>3</sup> (Silicium(di)oxide cristoballiet (respirabel); Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value; voor respirabel stof)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> Silica, respirable crystalline; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
sodium chloride (7647-14-5)		
Latvia	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Lithuania	IPRV (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

## 8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation.  
 Personal protective equipment : Protective goggles. Gloves.




Hand protection : Wear protective gloves.  
 Eye protection : Chemical goggles or safety glasses.  
 Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.  
 Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid  
 Colour : Colourless.  
 Odour : odourless.  
 Odour threshold : No data available  
 pH : No data available  
 Relative evaporation rate (butylacetate=1) : No data available  
 Melting point : No data available  
 Freezing point : No data available  
 Boiling point : No data available  
 Flash point : No data available  
 Auto-ignition temperature : No data available  
 Decomposition temperature : No data available  
 Flammability (solid, gas) : Non flammable  
 Vapour pressure : No data available  
 Relative vapour density at 20 °C : No data available  
 Relative density : No data available  
 Solubility : Soluble in water.  
 Log Pow : No data available  
 Log Kow : No data available  
 Viscosity, kinematic : No data available  
 Viscosity, dynamic : No data available  
 Explosive properties : No data available  
 Oxidising properties : No data available  
 Explosive limits : No data available

	<b>SDS Safety Data Sheet</b>				<b>STATUS</b>	<b>Controlled</b>
	<b>SDS No</b>	SDS-59	<b>REV</b>	01	<b>ECO</b>	1329
	<b>Last Review Date</b>	09/15/15			Page 5 of 7	
	<b>Product Name</b>	Celite Protamine Dose Assay Tube				

## 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)


sodium chloride (7647-14-5)	
LD50 oral rat	3000 mg/kg (Rat; Experimental value; 3550 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit; Experimental value)
ATE CLP (oral)	3000,000 mg/kg bodyweight

Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

sodium chloride (7647-14-5)	
LC50 fish 2	5840 mg/l (LC50; ASTM; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)
Threshold limit algae 2	2430 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 120 h; Algae; Static system; Fresh water; Experimental value)

	<b>SDS Safety Data Sheet</b>				<b>STATUS</b>	<b>Controlled</b>
	<b>SDS No</b>	SDS-59	<b>REV</b>	01	<b>ECO</b>	1329
	<b>Last Review Date</b>	09/15/15			Page 6 of 7	
	<b>Product Name</b>	Celite Protamine Dose Assay Tube				

#### 12.2. Persistence and degradability

Celite Protamine Dose Assay Tube	
Persistence and degradability	Not established.
Silicon dioxide (14808-60-7)	
Persistence and degradability	Biodegradability: Not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Biodegradation	Not applicable
cristobalite, conc respirable crystalline silica >=10% (14464-46-1)	
Persistence and degradability	Biodegradability: Not applicable. No (test)data available on mobility of the substance.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
sodium chloride (7647-14-5)	
Persistence and degradability	Biodegradability: Not applicable. No (test)data available on mobility of the substance.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

#### 12.3. Bioaccumulative potential

Celite Protamine Dose Assay Tube	
Bioaccumulative potential	Not established.
Silicon dioxide (14808-60-7)	
Bioaccumulative potential	Not established.
cristobalite, conc respirable crystalline silica >=10% (14464-46-1)	
Bioaccumulative potential	No test data available.
sodium chloride (7647-14-5)	
Log Pow	-3,0 (Calculated)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

#### 12.4. Mobility in soil

Silicon dioxide (14808-60-7)	
Ecology - soil	Not applicable.

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

Not dangerous goods in terms of transport regulations

#### 14.2. UN proper shipping name


Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

	<b>SDS Safety Data Sheet</b>				<b>STATUS</b>	<b>Controlled</b>
	<b>SDS No</b>	SDS-59	<b>REV</b>	01	<b>ECO</b>	1329
	<b>Last Review Date</b>	09/15/15			Page 7 of 7	
	<b>Product Name</b>	Celite Protamine Dose Assay Tube				

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

##### 14.6.1. Overland transport

No additional information available

##### 14.6.2. Transport by sea

No additional information available

##### 14.6.3. Air transport

No additional information available

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1. EU-Regulations

Contains no substance on the REACH candidate list

##### 15.1.2. National regulations

Water hazard class (WGK) : 3 - severe hazard to waters

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-statements:

STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H373	May cause damage to organs through prolonged or repeated exposure
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
Xn	Harmful

SDS EU\_NSC

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*