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

### 1.1. Product identifier

Product form : Article  
Name : Kaolin Protamine Dose / Response Assay Tube  
Product code : PDAOK, R-PRT200K and R-PRT400K

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use, Industrial 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]

Acute Tox. 4 (Oral) H302  
Skin Corr. 1B H314  
Repr. 2 H361

Full text of H-statements: see section 16

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

Repr. Cat. 3; R63  
Xn; R22  
C; R34

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) :



Signal word (CLP) : Danger  
Hazardous ingredients : 1H-imidazole  
Hazard statements (CLP) : H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H361 - Suspected of damaging fertility or the unborn child

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Precautionary statements (CLP) :

- P202 - Do not handle until all safety precautions have been read and understood
- P260 - Do not breathe dust
- P270 - Do not eat, drink or smoke when using this product
- P301+P312 - IF SWALLOWED: Call a POISON CENTER if you feel unwell
- P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P308+P313 - IF exposed or concerned: Get medical advice/attention
- P280 - Wear eye protection, protective clothing, protective gloves
- 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

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Kaolin (Kaolin, respirable dust) substance with national workplace exposure limit(s) (BE, FR, GB, IT, PT)	(CAS No) 1332-58-7 (EC no) 310-194-1	< 80	Not classified
1H-imidazole	(CAS No) 288-32-4 (EC no) 206-019-2	< 30	Xn; R22 C; R34 Repr.Cat.3; R63
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Kaolin (Kaolin, respirable dust) substance with national workplace exposure limit(s) (BE, FR, GB, IT, PT)	(CAS No) 1332-58-7 (EC no) 310-194-1	< 80	Not classified
1H-imidazole	(CAS No) 288-32-4 (EC no) 206-019-2	< 30	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Repr. 2, H361d

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 exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/injuries : Causes severe skin burns and eye damage. Suspected of damaging fertility or the unborn child.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

### 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.

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

Reactivity : Thermal decomposition generates : Corrosive vapours.

### 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.

### 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. Do not breathe dust. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash Skin thoroughly after handling.

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

Technical measures : Comply with applicable regulations.

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

Kaolin (Kaolin, respirable dust) (1332-58-7)		
Belgium	Limit value (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (Kaolin (fraction alvéolaire); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Kaolin; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (Kaolin; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction. The value is for particulate matter containing no asbestos and < 1% crystalline silica)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> Kaolin, respirable dust; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)

### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation.

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Personal protective equipment : Protective clothing. Protective goggles. Gloves.



Hand protection : Wear protective gloves.  
 Eye protection : Chemical goggles or face shield.  
 Skin and body protection : Wear suitable protective clothing.  
 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  
 Appearance : Powder.  
 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 : Product is not explosive.  
 Oxidising properties : No data available  
 Explosive limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

### 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.

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#### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

Kaolin Protamine Dose / Response Assay Tube	
ATE CLP (oral)	500,000 mg/kg bodyweight

1H-imidazole (288-32-4)	
LD50 oral rat	970 mg/kg (Rat)
ATE CLP (oral)	970,000 mg/kg bodyweight

Skin corrosion/irritation : Causes severe skin burns and eye damage.  
 Serious eye damage/irritation : Serious eye damage, category 1, implicit  
 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 : Suspected of damaging fertility or the unborn child.  
 Specific target organ toxicity (single exposure) : Not classified  
 Based on available data, the classification criteria are not met  
 Specific target organ toxicity (repeated exposure) : Not classified  
 Based on available data, the classification criteria are not met  
 Aspiration hazard : Not classified  
 Based on available data, the classification criteria are not met  
 Potential adverse human health effects and symptoms : Harmful if swallowed.

### SECTION 12: Ecological information

#### 12.1. Toxicity

1H-imidazole (288-32-4)	
EC50 Daphnia 1	341,5 mg/l (EC50; 48 h)
Threshold limit algae 2	130 mg/l (EC50; 72 h)

#### 12.2. Persistence and degradability

Kaolin Protamine Dose / Response Assay Tube	
Persistence and degradability	Not established.


1H-imidazole (288-32-4)	
Persistence and degradability	Readily biodegradable in water.

Kaolin (Kaolin, respirable dust) (1332-58-7)	
Persistence and degradability	Biodegradability: Not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

#### 12.3. Bioaccumulative potential

Kaolin Protamine Dose / Response Assay Tube	
Bioaccumulative potential	Not established.

1H-imidazole (288-32-4)	
BCF fish 1	1 (BCF)
Log Pow	-0,02
Bioaccumulative potential	Bioaccumulation: Not applicable.

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#### Kaolin (Kaolin, respirable dust) (1332-58-7)

Bioaccumulative potential : Bioaccumulation: No data available. Not established.

#### 12.4. Mobility in soil

No additional information available

#### 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

UN-No. (ADR) : 1759

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : CORROSIVE SOLID, N.O.S.

Transport document description (ADR) : UN 1759 CORROSIVE SOLID, N.O.S. (CONTAINS ; 1H-imidazole(288-32-4)), 8, II, (E)

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

Class (ADR) : 8

Danger labels (ADR) : 8



#### 14.4. Packing group

Packing group (ADR) : II

#### 14.5. Environmental hazards

Other information : No supplementary information available.

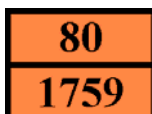
#### 14.6. Special precautions for user

##### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 80

Classification code (ADR) : C10

Orange plates :



Special provisions (ADR) : 274

Transport category (ADR) : 2

Tunnel restriction code (ADR) : E

Limited quantities (ADR) : 1kg

Excepted quantities (ADR) : E2

EAC code : 2X

##### 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

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## 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:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H361	Suspected of damaging fertility or the unborn child
H361d	Suspected of damaging the unborn child
R22	Harmful if swallowed
R34	Causes burns
R63	Possible risk of harm to the unborn child
C	Corrosive
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.*