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

### 1.1. Product identifier

Product form : Article  
 Name : GEM Test PT Cartridges  
 Product code : 6260030000

### 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](mailto: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  
 Acute Tox. 2 (Dermal) H310  
 STOT RE 2 H373  
 Aquatic Acute 1 H400  
 Aquatic Chronic 2 H411

Full text of H-statements: see section 16

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

T+; R26/27/28  
 N; R50/53  
 R33

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) :




GHS06

GHS08

GHS09

Signal word (CLP) : Danger

Hazardous ingredients : thiomersal

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- Hazard statements (CLP) :
- H302 - Harmful if swallowed
  - H310 - Fatal in contact with skin
  - H373 - May cause damage to organs through prolonged or repeated exposure
  - H400 - Very toxic to aquatic life
  - H411 - Toxic to aquatic life with long lasting effects
- Precautionary statements (CLP) :
- P260 - Do not breathe dust
  - P270 - Do not eat, drink or smoke when using this product
  - P273 - Avoid release to the environment
  - P301+P312 - IF SWALLOWED: Call a POISON CENTER if you feel unwell
  - P302+P352 - IF ON SKIN: Wash with plenty of soap and water
  - P314 - Get medical advice/attention if you feel unwell
  - P361+P364 - Take off immediately all contaminated clothing and wash it before reuse
  - P264 - Wash hands thoroughly after handling
  - P280 - Wear eye protection, 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
barbital sodium	(CAS No) 144-02-5 (EC no) 205-613-9	< 30	Xn; R22
thiomersal	(CAS No) 54-64-8 (EC no) 200-210-4 (EC index no) 080-004-00-7	< 5	T+; R26/27/28 R33 N; R50/53
Name	Product identifier	Specific concentration limits	
thiomersal	(CAS No) 54-64-8 (EC no) 200-210-4 (EC index no) 080-004-00-7	(0,05 =< C < 0,5) Xn;R20/21/22 (C >= 0,05) R33 (0,5 =< C < 2) T;R23/24/25 (C >= 2) T+;R26/27/28	
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
barbital sodium	(CAS No) 144-02-5 (EC no) 205-613-9	< 30	Acute Tox. 4 (Oral), H302
thiomersal	(CAS No) 54-64-8 (EC no) 200-210-4 (EC index no) 080-004-00-7	< 5	Acute Tox. 3 (Oral), H301 Acute Tox. 1 (Dermal), H310 STOT RE 2, H373 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
Name	Product identifier	Specific concentration limits	
thiomersal	(CAS No) 54-64-8 (EC no) 200-210-4 (EC index no) 080-004-00-7	(C >= 0,1) STOT RE 2, H373	

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. Immediately call a POISON CENTER or doctor/physician. Specific measures (see instructions on this label). Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
- First-aid measures after eye contact :
- Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

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

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

Symptoms/injuries : Causes damage to organs. There are potential chronic health effects to consider.  
 Symptoms/injuries after skin contact : Fatal in contact with skin.  
 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.

#### 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.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if substance enters sewers or public waters. Avoid release to the environment.

#### 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 get in eyes, on skin, or on clothing. Avoid breathing fume, Vapours.  
 Hygiene measures : Do not eat, drink or smoke when using this product. Wash Skin thoroughly after handling.

#### 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

<b>thiomersal (54-64-8)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (Mercure (composés arylés) (en Hg); Belgium; Time-weighted average exposure limit 8 h)

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#### thiomersal (54-64-8)

France	VME (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (Mercure (composés arylés et inorganiques), en Hg; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (Mercury, Aryl compounds, as Hg; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)

#### 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. Wear appropriate mask.  
 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

No additional information available

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#### 10.2. Chemical stability

Stable under normal conditions. Not established.

#### 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 : Oral: Harmful if swallowed. Dermal: Fatal in contact with skin.

GEM Test PT Cartridges	
ATE CLP (oral)	1875,000 mg/kg bodyweight
ATE CLP (dermal)	125,000 mg/kg bodyweight
barbital sodium (144-02-5)	
LD50 oral rat	600 mg/kg (Rat)
thiomersal (54-64-8)	
LD50 oral rat	75 mg/kg (Rat)
ATE CLP (oral)	75,000 mg/kg bodyweight
ATE CLP (dermal)	5,000 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. There are potential chronic health effects to consider
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Harmful if swallowed. Fatal in contact with skin.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

thiomersal (54-64-8)	
LC50 fish 1	0,033 ppm (LC50; 96 h)
EC50 Daphnia 1	0,0052 mg/l (EC50; 48 h)
Threshold limit algae 1	0,4 ppm (EC50)

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#### 12.2. Persistence and degradability

<b>GEM Test PT Cartridges</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.
<b>barbital sodium (144-02-5)</b>	
Persistence and degradability	Biodegradability in water: no data available.
<b>thiomersal (54-64-8)</b>	
Persistence and degradability	Adsorbs into the soil.

#### 12.3. Bioaccumulative potential

<b>GEM Test PT Cartridges</b>	
Bioaccumulative potential	Not established.
<b>barbital sodium (144-02-5)</b>	
Bioaccumulative potential	Bioaccumulation: No data available.
<b>thiomersal (54-64-8)</b>	
Log Pow	-1,88

#### 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. Hazardous waste due to toxicity.

### SECTION 14: Transport information

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

#### 14.1. UN number

UN-No. (ADR) : 3288

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : TOXIC SOLID, INORGANIC, N.O.S.  
 Transport document description (ADR) : UN 3288 TOXIC SOLID, INORGANIC, N.O.S. (CONTAINS ; barbital sodium(144-02-5) ; thiomersal(54-64-8)), 6.1, II, (D/E), ENVIRONMENTALLY HAZARDOUS

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

Class (ADR) : 6.1  
 Danger labels (ADR) : 6.1



#### 14.4. Packing group


Packing group (ADR) : II

#### 14.5. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

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#### 14.6. Special precautions for user

##### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 60  
 Classification code (ADR) : T5  
 Orange plates :



Special provisions (ADR) : 274  
 Transport category (ADR) : 2  
 Tunnel restriction code (ADR) : D/E  
 Limited quantities (ADR) : 500g  
 Excepted quantities (ADR) : E4  
 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

## 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. 1 (Dermal)	Acute toxicity (dermal), Category 1
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H301	Toxic if swallowed
H302	Harmful if swallowed
H310	Fatal in contact with skin
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
R22	Harmful if swallowed
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed
R33	Danger of cumulative effects

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R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N	Dangerous for the environment
T+	Very toxic
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.*