# Getinge Assured

## Protein Tests

## 1.0 Product and Company Identification

| | |
|---|---|
| **Product Name** | Getinge Assured Protein Test Instrument Surface, Lumen and Flexible Endoscope 2,5m, |
| **Product Code** | 503878500, 503911200, 503964400, 6005500000, 6005500296, 6005500297 |
| **Supplier** | Getinge Infection Control AB<br>PO Box 69, SE 305 05 Getinge |
| **Supplier Australia:** | Getinge Australia Pty Ltd<br>1/160 Lytton Road, Morningside, QLD 4170, Australia<br>Phone: 1800 438 464 |
| **Supplier New Zealand:** | Getinge Australia (NZ Branch)<br>600 Great South Road, Building B, Level 2<br>Ellerslie, Auckland 1051, New Zealand<br>Phone: 0800 1 438 4643 |
| **Telephone No.** | For emergency event of spillage, inhalation or ingestion of products, please contact the emergency hotline:<br>Australia: +61 280 144 558<br>New Zealand: +64 9 929 1484 |
| **Web** | http://www.getinge.com |
| **Email** | info@getinge.com |

## 2.0 Hazards Identification

| | |
|---|---|
| **GHS Classification** | Specific Target Organ Toxicity (single) 1 Skin Corrosion/ Irritation 1B Acute Toxicity Dermal 3 Acute Toxicity Oral 3 Acute Toxicity Inhalation 3 |
| **GHS Label Code(s)** | H303, H314, H331 |
| **Pictogram(s)** |  |
| **Signal Word(s)** | Danger |
| **Hazard Statement(s)** | H303 – May be harmful if swallowed.<br>H314 – Causes severe skin burns and eye damage.<br>H311 – Toxic in contact with skin.<br>H301 – Toxic if swallowed.<br>H331 – Toxic if inhaled.<br>H370 – Causes damage to organs. |
| **Precautionary Statement(s)** | P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.<br>P280 – Wear protective gloves/ protective clothing/ eye protection/ face protection.<br>P302+ P352 – IF ON SKIN: Wash with plenty of soap and water.<br>P304+ P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 – Immediately call a POISON CENTER or doctor/ physician. |

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| **EU Dangerous Substances Directive** | Symbol of Danger: C<br>Indication of Danger: Corrosive<br>R 34- Causes burns<br>S 24- Avoid contact with eyes<br>S 26- In case of contact with eyes rinse immediately with plenty of water & seek medical advice<br>S 35- This material and container must be disposed of in a safe way<br>S 37- Wear suitable gloves |
| **OSHA Hazards** | Target Organ Effect, Highly toxic by inhalation, Harmful by ingestion. Corrosive |
| **Target Organs** | Liver, Blood, Nerves |
| **Potential Health Effects:** | Inhalation: May be toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.<br>Skin: Harmful if absorbed through skin. Causes skin burns.<br>Eyes: Causes eye burns.<br>Ingestion: Harmful if swallowed. |

## 3.0 Composition / Information on Ingredients

| Component | EC Number | CAS Number | REACH REG. NO. | Weight % | Classification |
|---|---|---|---|---|---|
| **Phosphoric Acid** | 231-633-2 | 7664-38-2 | Not Available | 10-20 | C; R34 |
| **Methanol** | 200-659-6 | 67-56-1 | Not Available | 0-10 | F; R11 |
| **Non-Hazardous Components** | Not Listed | Not Applicable | Not Listed | Balance | |

## 4.0 First Aid Measures

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| **Inhalation** | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **Ingestion** | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |
| **Skin** | Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. |
| **Eyes** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **Note to Physician** | Treat symptomatically. |

## 5.0 Firefighting Measures

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| **Suitable Extinguishing Media** | Use water, dry chemical, foam, or carbon dioxide to extinguish fire. |
| **Fire Fighting Procedures** | Do not flush down sewers or other drainage systems. Exposed firefighters must wear approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU). |
| **Unusual Fire and Explosion Hazards** | None known. |
| **Combustion Products** | Phosphorus oxides. |
| **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. |
| **Flash Point** | Not Determined. |
| **Flammable Properties** | May be combustible at high temperatures. |

## 6.0 Accidental Release Measures

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| **Personal Precautions** | Minor spills or releases of this product are not expected to result in significant emergency response procedures. Wear protective acid resistant gloves or their equivalent when cleaning spilled or released material. Ensure adequate ventilation. |
| **Environmental Precautions** | Prevent water used to extinguish fires from reaching drains, sewers, surface waters or groundwater. |
| **Methods and Materials for Containment and Cleanup** | Prevent further leakage or spillage if safe to do so. Absorb with sand or vermiculite. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete. |

## 7.0 Handling and Storage

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|---|---|
| **Precautions for Safe Handling** | Handle in accordance with good industrial hygiene and safety practice. |
| **Storage** | Store in a cool dry place and keep container closed until use. Refrigerate to extend shelf life. DO NOT mix this product with any other chemical substances. |
| **Incompatible Products** | Strong Bases. Finely powdered metals. |

## 8.0 Exposure Controls / Personal Protection

| Component | CAS Number | ACGIH TLV | OSHA PEL (mg/m3) | NIOSHIDLH |
|---|---|---|---|---|
| **Phosphoric Acid** | 7664-38-2 | 3 mg/m$^3$ Stel<br>TWA: 1 mg/m$^3$ | TWA: 1 | IDLH: 1000 mg/m$^3$<br>TWA: 1 mg/m$^3$<br>STEL: 3 mg/m$^3$ |
| **Methanol** | 67-56-1 | 1000 ppm<br>STEL | TWA: 1000 ppm<br>TWA: 1900 mg/m$^3$ | IDLH: 330 ppm<br>TWA: 1000 ppm<br>TWA: 1900 mg/m$^3$ |
| **Non-Hazardous Components** | Not Applicable | | None Established | None Established |

| | |
|---|---|
| **Appropriate Engineering Controls** | Showers<br>Eyewash stations<br>Ventilation systems |
| **Eye/Face Protection** | Avoid contact with eyes. Safety glasses with side-shields. |
| **Skin Protection** | Wear protective gloves/clothing. |
| **Respiratory Protection** | None needed when this product is used in small amounts according to its prescribed manner by qualified personnel. Where risk assessment shows air-purifying respirators are appropriate use a respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| **Thermal Hazards** | Product contains small amounts of methyl alcohol (methanol) which is flammable (The mixture is not flammable). Handle and store product away from sources of heat and ignition (sparks, open flames, etc.). |
| **Hygiene Measures** | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. |

## 9.0 Physical and Chemical Properties

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|---|---|
| **Appearance** | Amber Liquid in Test Vial |
| **Odor** | Alcohol |
| **Odor Threshold** | Not Available |
| **Physical State** | Liquid |
| **pH** | Acidic, >2 |
| **Flash Point** | Not determined |
| **Flammable Properties** | May be combustible at high temperatures |
| **Melting Point** | Not Applicable |
| **Freezing Point** | Not Available |
| **Boiling Point** | Not Available |
| **Boiling Range** | Not Available |
| **Flash Point** | Not Available |
| **Flash Point** | Not Available |
| **Evaporation Rate** | Not Available |
| **Flammability** | >100°C |
| **Upper Flammable Point** | Not Available |
| **Lower Flammable Point** | Not Available |
| **Vapor Pressure** | Not Available |
| **Vapor Density** | Not Available |
| **Relative Density** | Not Available |
| **Solubility** | 100% in water |
| **Octanol/Partition Coefficient** | Not Available |
| **Auto Ignition Temperature** | Not Available |
| **Decomposition Temperature** | Not Available |
| **Viscosity** | Not Available |

## 10.0 Stability and Reactivity

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|---|---|
| **Reactivity** | This product is not reactive. |
| **Chemical Stability** | This product is stable under normal handling conditions. |
| **Possibility of Hazardous Reactions** | This product will not polymerize. |
| **Conditions to Avoid** | Avoid open flames as solution contains alcohol (methanol). |
| **Incompatible Materials** | Metals, Bases, Oxidizers, Reducing Agents and Halogens. Strong bases. Finely powdered metals |
| **Hazardous Decomposition Products** | Oxides of carbon, nitrogen, phosphorous or phosphine. |

## 11.0 Toxicological Information

The toxicological properties of this product have not been fully investigated as a whole.

| | |
|---|---|
| **Acute Toxicity:** | No Data Available |
| **Skin Corrosion/Irritation:** | No Data Available |
| **Serious Eye Damage/Irritation:** | No Data Available |
| **Respiratory or Skin Desensitization:** | No Data Available |
| **Germ Cell Mutagenicity:** | No Data Available |
| **Carcinogenicity:** | No Data Available |
| **Reproductive Toxicity:** | No Data Available |
| **STOT - Single Exposure:** | No Data Available |
| **STOT - Repeated Exposure:** | No Data Available |
| **Aspiration Hazard:** | No Data Available |
| **Ingestion:** | No Data Available |
| **Inhalation:** | No Data Available |
| **Skin / Eye Exposure:** | No Data Available |
| **Acute and Chronic Effects:** | No Data Available |
| **Potential Health Effects:** | No Data Available |
| **Signs and Symptoms of Exposure:** | No Data Available |
| **Synergistic Effects:** | No Data Available |

## 12.0 Ecological Information

The ecological properties of this product have not been fully investigated as a whole.

| | |
|---|---|
| **Toxicity to Fish and Invertebrates** | No Data Available |
| **Persistence and Degradability** | No Data Available |
| **Bioaccumulative Potential** | No Data Available |
| **Mobility in Soil** | No Data Available |
| **PBT and vPvB Assessment** | No Data Available |
| **Other Adverse Effects** | No Data Available |

## 13.0 Disposal Considerations

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|---|---|
| **Product** | Offer surplus and non-recyclable material to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Discarded product may be considered a U.S. Hazardous Waste if Characteristic testing shows pH value to be at or below 2.0 standard units. |
| **Contaminated Packaging** | Dispose of as unused product. In U.S., containers are considered empty when less than 3% of the container's volume remains in the container. Dispose of in accordance with all federal, state and local regulations. |

## 14.0 Transport Information

**DOT**
Shipping Name: Phosphoric Acid, liquid solution
UN#: 1805
Class: 8
Packing Group: Packing Group III
Hazard Label: Corrosive
Emergency Response Guidebook (ERG) No.: 154
Reportable Quantity (RQ) 5000LBS

**IATA**
Shipping Name: Phosphoric Acid, liquid solution
IATA UN#: 1805
Class: 8
Packing Group: Packing Group III
Emergency Response Guidebook (ERG) No.: 154

## 14.0 Transport Information

**ADR**

UN No.: 1805
Name and description: Phosphoric Acid, Solution
Class: 8
Classification code: CI
Packaging group: III
Labels: 8

**Special Provisions:**
Limited and excepted quantities: 5 L, E1

**Packaging:**
Packaging instructions: P001, IBC03, LP01, R001
Mixed packaging provisions: MP19

**Portable tanks and bulk containers:**
Instructions: T4
Special provisions: TP1

## 15.0 Regulatory Information

**Emergency Planning and Community Right-to-Know Act (EPCRA)**

| | Section 302 Emergency Planning | Section 304 Emergency Notification | Section 311 MSDS Reporting | Section 312 Inventory Reporting |
|---|---|---|---|---|
| **Phosphoric Acid** | - | - | X | X |
| **Methanol** | - | - | X | X |

**International Inventories:**
TSCA: Complies
EINESC/ELINCS: Complies
IECSC: Complies
KECL: Does Not Comply
PICCS: Complies
AICS: Complies
HSNO Act: Complies

**U.S. Federal Regulations:**
**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**Section 311/312 Health Hazards (As Supplied):**
Acute: Yes,
Chronic: No
Fire Hazard: No
Sudden Release of Pressure Hazard: No
Reactive Hazard: No

**Toxic Substances Control Act (TSCA):**
All constituents are listed on the TSCA Inventory.

**Clean Air Act (CAA) (Section 112 Hazardous Air Pollutants (HAPS) (see CFR 61)**
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

## 15.0 Regulatory Information

**Clean Water Act (CWA) (40 CFR 122.21 and 40 CFR 122.42):**
No ingredients in this product are listed priority pollutants in 40 CFR Part 423. These pollutants are regulated by categorical wastewater pretreatment discharge standards and NPDES requirements for direct discharges. Non-priority pollutants are regulated individually and may be included in local limit discharge parameters.

**Comprehensive Environmental Response Compensation and Liability Act:**

| | CECRLA Hazardous Substance | CERCLA RQ NRC Release Reporting |
|---|---|---|
| **Phosphoric Acid** | Yes | 5,000 lbs |
| **Methanol** | Yes | 5,000 lbs |

**State Right To Know Lists:**
The following ingredients are listed under various U.S. State right-to-know laws and Canada's Workplace Hazardous Materials Information System (WHMIS).

| | New Jersey RTK | Pennsylvania RTK | Massachusetts RTK | California Prop 65 | Canada WHMIS |
|---|---|---|---|---|---|
| **Phosphoric Acid** | X | X | X | - | X |
| **Methanol** | X | X | X | X | X |

**CALIFORNIA PROPOSITION 65 COMPONENTS:**
WARNING! This product contains a chemical known to the State of California to cause developmental harm.
Methanol
Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

**SUPPLIER NOTIFICATION**
contains the following U.S. EPCRA Section 313 chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

| | CAS Number | % Weight |
|---|---|---|
| **Methanol** | 67-56-1 | 2 - 5 |

**European Inventory of Existing Commerical Chemical Substances:**

EC#: 200-659-6
CAS#: 67-56-1
Name: methanol
De: Methanol
Es: metanol
Fr: méthanol

EC#: 231-633-2
CAS#: 7664-38-2
Name: orthophosphoric acid
De: Orthophosphorsäure
Es: ácido ortofosforico
Fr: acide orthophosphorique

**WHWMIS Hazard Class**
E Corrosive material
D2B Toxic materials

**New Zealand's Hazardous Substances and New Organisms Act (HSNO Act):**
All constituents are listed in the New Zealand Inventory of Chemicals (NZIoC) List and the mixture complies with the N.O.S. (Corrosive) Group Standard 2020 (HSR002618).

## 16.0 Other Information

This Material Safety Data Sheet complies with the U.S. Hazard Communication Requirements contained in 29 CFR Part 1910.1200 as promulgated by the U.S. Occupational Health and Safety Administration (OSHA), the American National Standards Institute (ANSI) recommended practice for preparing MSDS sheets as contained in ANSI Z400.1- 2004, Section 13 of the Canadian Hazardous Products Act (HPA) and the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals

Abbreviations

| | |
|---|---|
| % | Percent |
| ACGIH | U.S. American Conference of Governmental Industrial Hygienists |
| ANSI | American National Standards Institute |
| C | Degrees Celsius |
| CAA | U.S. Clean Air Act |
| CAS | Chemical Abstracts Number |
| CERCLA | U.S. Comprehensive Environmental Response Compensation And Liability Act |
| CWA | U.S. Clean Water Act |
| DOT | U.S. Department of Transportation |
| EC | European Commission Number |
| EC50 | Half maximal effective concentration |
| EINECS | European Inventory Of Existing Commercial Chemical Substances |
| EPCRA | U.S. Emergency Planning And Community Right-To-Know Act |
| EU | European Union |
| F | Degrees Fahrenheit |
| GHS | Globally Harmonized System (GHS) of Classification and Labeling of Chemicals |
| H | Hours |
| HPA | Hazardous Products Act |
| IARC | International Agency for the Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Lethal Dose to kill 50% of test species via inhalation |
| LD50 | Lethal Dose to kill 50% of test species via oral or dermal administration |
| LDLO | Lethal Dose - Low Concentration |
| mg/kg | Milligram per kilogram of body weight |
| mg/l | Milligrams per liter |
| mg/m3 | Milligrams per cubic meter |
| MSDS | Material Safety Data Sheet |
| NAAQS | National Ambient Air Quality Standard established under CAA |
| NPDES | U.S. National Pollutant Discharge Elimination System |
| NTP | U.S. National Toxicology Program |
| OSHA | U.S. Occupational Safety and Health Administration (See U.S.) |
| PBT | Persistent Bioaccumulative Toxin |
| PEL | Permissible Exposure Limit Averaged Over 8 Hours (See OSHA) |
| Ppb | Parts Per Billion |
| Ppm | Parts Per Million |
| Prop 65 | California Proposition 65 |
| REACH | Registration, Evaluation, Authorization and Restriction of Chemicals (See EU) |
| RQ | Reportable Quantity |
| RTK | Right-To-Know |
| SDS | Safety Data Sheet |
| SVHC | Substances of Very High Concern (See REACH) |
| TLV | Threshold Limit Value Averaged Over 8 Hours (See ACGIH) |
| TSCA | U.S. Toxic Substances Control Act |
| U.S. | United States |
| vPvB | Very Persistent, Very Bioaccumulative Chemical (See REACH). |
| WHIMS | Canadian Workplace Hazardous Materials Information System |

**IMPORTANT USE NOTICE**

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END of SDS
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