


### 1.0 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Wash Checks Pro, Protein Detection Kit  
**Other Names:** Wash-Checks Pro Protein Detection Kit  
**Product Codes:** WC-112, -115 -118 -119 -121  
**Producer:** SteriTec Products, Incorporated  
 74 Inverness Drive East  
 Englewood, Colorado 80112 (USA)

**Telephone No.:** 1-303-660-4201 (8:00 AM – 5:00 PM PST)  
**Facsimile No.:** 1-303-660-4213 (24 Hours)  
**Emergency No.:** 1-800-424-9300 (CHEMTREC)  
 24-Hour All Emergencies  
 1-703-527-3887 (From Outside USA - Collect Calls Accepted)

### 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

|  |   |  |
|--|---|--|
| <b>GHS Label Code(s):</b><br>H303, H314, H331  | <b>Signal Word(s):</b> Danger   |  |
| <b>Pictogram(s):</b><br> | <b>Hazard Statement(s)</b><br>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. | <b>Precautionary Statement(s):</b><br>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. |

**EU Dangerous Substances Directive:**

|   |  |   |
|---|--|---|
| <b>Symbol of Danger:</b> C  | <b>Indication of Danger:</b> Corrosive       | <b>R 34- Causes burns</b><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                                       |
| <b>OSHA Hazards</b><br>Target Organ Effect, Highly toxic by inhalation, Harmful by ingestion. Corrosive | <b>Target Organs</b><br>Liver, Blood, Nerves | <b>Potential Health Effects</b><br>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 |
|-------------------------|------------|----------------|----------------|----------|----------------|
| Trade Secret 1          | Listed     | -              | Not available  | 10-20    | C; R34         |
| Trade Secret 2          | Listed     | -              | Not available  | 0-10     | F; R11         |
| Phosphoric Acid         | 231-633-2  | 7664-38-2      |                | 10-20    |                |
| Methanol                | 200-659-6  | 67-56-1        |                | 0-10     |                |
| Non-Hazardous Component | Not Listed | Not Applicable | Not Listed     | Balance  |                |

### 4.0 FIRST AID MEASURES

**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

**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

**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

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/m <sup>3</sup> )                | NIOSH IDLH  |
|-------------------------|----------------|--|--|---|
| Trade Secret 1          | Registered     | 3 mg/m <sup>3</sup> Stel<br>TWA: 1 mg/m <sup>3</sup> | TWA: 1                                       | IDLH: 1000 mg/m <sup>3</sup><br>TWA: 1 mg/m <sup>3</sup><br>STEL: 3 mg/m <sup>3</sup> |
| Trade Secret 2          | Registered     | 1000 ppm STEL  | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup> | IDLH: 330 ppm<br>TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>                         |
| Phosphoric Acid         | 7664-38-2      |  | 1  | 1   |
| Methanol                | 67-56-1        |  | 260  | 260   |
| Non-Hazardous Component | Not Applicable |  | None Established                             | None Established  |

**APPROPRIATE ENGINEERING CONTROLS:** Showers, Eyewash stations, 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

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

## 10. STABILITY AND REACTIVITY

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

## 12.0 ECOLOGICAL INFORMATION

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

|  |                   |
|--|-------------------|
| <b>TOXICITY TO FISH AND INVERTEBRATES:</b> | No Data Available |
| <b>PERSISTENCE AND DEGRADABILITY:</b>      | No Data Available |
| <b>BIOACCUMULATIVE POTENTIAL:</b>          | No Data Available |
| <b>MOBILITY IN SOIL:</b>                   | No Data Available |
| <b>PBT AND vPvB ASSESSMENT:</b>            | No Data Available |
| <b>OTHER ADVERSE EFFECTS:</b>              | No Data Available |

## 13.0 DISPOSAL CONSIDERATIONS

**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

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

## 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 |
|-----------------|--------------------------------|------------------------------------|----------------------------|---------------------------------|
| Trade Secret 1  | -                              | -                                  | X                          | X                               |
| Phosphoric Acid | -                              | -                                  | X                          | X                               |
| Methanol        | -                              | -                                  | X                          | X                               |

#### International Inventories:

TSCA: Complies  
EINESC/ELINCS: Complies  
IECSC: Complies  
KECL: Does Not Comply  
PICCS: Complies  
AICS: 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.

#### COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT

|                 | CECRLA Hazardous Substance | CERCLA RQ NRC Release Reporting |
|-----------------|----------------------------|---------------------------------|
| Trade Secret 1  | -                          | -                               |
| 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 |
|-----------------|----------------|------------------|-------------------|--------------------|--------------|
| Trade Secret 1  | -              | -                | -                 | -                  | -            |
| 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 considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

**SECTION 313 SUPPLIER NOTIFICATION**

This product 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 COMMERCIAL CHEMICAL SUBSTANCES**

|  |   |
|--|---|
| EC#: 200-659-6<br>CAS#: 67-56-1<br>Name: methanol<br>De: Methanol<br>Es: metanol<br>Fr: méthanol | EC#: 231-633-2<br>CAS#: 7664-38-2<br>Name: orthophosphoric acid<br>De: Orthophosphorsäure<br>Es: ácido ortofosforico<br>Fr: acide orthophosphorique |
|--|---|

**WHMIS Hazard Class**

**E Corrosive material**

**D2B Toxic materials**

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

**IMPORTANT USE NOTICE**

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END of SDS

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