

**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

**GHS Label Code(s):** H303, H314, H330

**Pictogram(s):**



**Signal Word(s):** Danger

**Hazard Statement(s)** H303 – May be harmful if swallowed.  
H314 – Causes severe skin burns and eye damage.  
H311 – Toxic in contact with skin.  
H301 – Toxic if swallowed.  
H331 – Toxic if inhaled.  
H370 – Causes damage to organs.

**Precautionary Statement(s):**

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.  
P280 – Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P302+ P352 – IF ON SKIN: Wash with plenty of soap and water.  
P304+ P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 – Immediately call a POISON CENTER or doctor/ physician.

**EU Dangerous Substances Directive:**

**Symbol of Danger:** C

**Indication of Danger:** Corrosive

R 34- Causes burns  
S 24- Avoid contact with eyes  
S 26- In case of contact with eyes, rinse immediately with plenty of water & seek medical advice  
S 35- This material and container must be disposed of in a safe way  
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.  
Skin: Harmful if absorbed through skin. Causes skin burns.  
Eyes: Causes eye burns.  
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 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

### 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

**CONTROL PARAMETERS**

Component	CAS Number	ACGIH TLV	OSHA PEL (mg/m <sup>3</sup> )	NIOSHIDLH
Phosphoric Acid	7664-38-2	3 mg/m <sup>3</sup> Stel TWA: 1 mg/m <sup>3</sup>	TWA: 1	IDLH: 1000 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>
Methanol	67-56-1	1000 ppm STEL	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	IDLH: 330 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
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 °C		

## 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
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****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

**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

**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.

**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 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	EC#:	231-633-2
CAS#:	67-56-1	CAS#:	7664-38-2
Name:	methanol	Name:	orthophosphoric acid
De:	Methanol	De:	Orthophosphorsäure
Es:	metanol	Es:	ácido ortofosforico
Fr:	méthanol	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
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/m <sup>3</sup>	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

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END of SDS

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