SAFETY DATA SHEET

1. Identification

Product identifier	**SERELISA PEDV Ab Mono Indirect**
Other means of identification	
Synonyms	Porcine Epidemic Diarrhea Virus Antibody Test Kit
Recommended use	Veterinary product used as diagnostic aid
Recommended restrictions	Not for human use

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name (US)	Zoetis Inc. 100 Campus Drive, P.O. Box 651 Florham Park, New Jersey 07932 (USA)
Rocky Mountain Poison and Drug Center	1-866-531-8896
Product Support/Technical Services	1-800-366-5288
Emergency telephone numbers	CHEMTREC (24 hours): 1-800-424-9300 International CHEMTREC (24 hours): +1-703-527-3887
Contact E-Mail	VMIPSrecords@zoetis.com
Company Name (EU)	Zoetis Belgium S.A. Mercuriusstraat 20 1930 Zaventem Belgium
Emergency telephone number	International CHEMTREC (24 hours): +1-703-527-3887
Contact E-Mail	VMIPSrecords@zoetis.com

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity (the unborn child)	Category 1B
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	

Label elements

Signal word	Danger
Hazard statement	Causes serious eye irritation. May damage the unborn child. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid release to the environment.

Response	If exposed or concerned: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	As with any protein, the possibility of allergic reactions exists. May cause slight skin irritation.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Cacodylic acid		75-60-5	Trace (Substrate)
Diammonium Salt (ABTS)		30931-67-0	<1% (Substrate)
EDTA		60-00-4	<1% (Wash Solution)
Hydrochloric Acid		7647-01-0	<1% (Wash Solution)
Imidazole		288-32-4	<1% (Wash Solution)
Sodium chloride		7647-14-5	<25% (Wash Solution)
Sodium Lauryl Sulfate		151-21-3	5% (Stop Solution)
Various proteins		Not established	

Composition comments In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Thermal decomposition products may include oxides of carbon, nitrogen, and sulfur. May include hydrogen chloride. Arsenic.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Clean up in accordance with all applicable regulations. Ensure adequate ventilation. Remove sources of ignition. Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly. Prevent release to the environment.

Never return spills to original containers for re-use. Should not be released into the environment. For waste disposal, see section 13 of the SDS.

Environmental precautions

Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. When handling, use appropriate personal protective equipment (see Section 8). Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Avoid prolonged exposure. Avoid release to the environment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Wash contaminated clothing before reuse. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.

Conditions for safe storage, including any incompatibilities

Store in cool place. Store at 4C / 39.2C. Protect from heat and light. Store locked up. Store in a closed container away from incompatible materials. Keep away from heat, sparks and open flame.

8. Exposure controls/personal protection

Occupational exposure limits

Zoetis

Components	Type	Value
Sodium Lauryl Sulfate (CAS 151-21-3)	TWA	300 µg/m3

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Cacodylic acid (CAS 75-60-5)	TWA	0.01 mg/m3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Cacodylic acid (CAS 75-60-5)	PEL	0.5 mg/m3
Hydrochloric Acid (CAS 7647-01-0)	Ceiling	7 mg/m3
		5 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Cacodylic acid (CAS 75-60-5)	TWA	0.01 mg/m3
Hydrochloric Acid (CAS 7647-01-0)	Ceiling	2 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Cacodylic acid (CAS 75-60-5)	Ceiling	0.002 mg/m3
Hydrochloric Acid (CAS 7647-01-0)	Ceiling	7 mg/m3
		5 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Cacodylic acid (CAS 75-60-5)	35 µg/l	Inorganic arsenic, plus methylated metabolites, as As	Urine	*

* - For sampling details, please see the source document.

Control banding approach

Not available.

Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear eye/face protection. Wear safety glasses as minimum protection (goggles recommended).
Skin protection	
Hand protection	Wear impervious gloves if skin contact is possible.
Other	Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.
Respiratory protection	No personal respiratory protective equipment normally required. If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.
Thermal hazards	Not applicable.
General hygiene considerations	Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition products may include oxides of carbon, nitrogen, and sulfur. May include hydrogen chloride. Arsenic.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Diammonium Salt (ABTS)	Severity: Irritant
Hydrochloric Acid	Severity: Irritant

Skin contact Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Sodium Lauryl Sulfate	Result: Irritant Severity: Mild - Moderate
Imidazole	Severity: Corrosive
Diammonium Salt (ABTS)	Severity: Irritant
Hydrochloric Acid	Severity: Severe
Sodium chloride	Species: Rabbit Severity: Mild

Eye contact Causes serious eye irritation.

Sodium Lauryl Sulfate	Result: Irritant Severity: Moderate - Severe
Imidazole	Severity: Corrosive
Diammonium Salt (ABTS)	Severity: Irritant
EDTA	Severity: Irritant
Hydrochloric Acid	Severity: Severe
Sodium chloride	Species: Rabbit Severity: Moderate

Ingestion Expected to be a low ingestion hazard.

Hydrochloric Acid	Severity: Irritant

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Cacodylic acid (CAS 75-60-5)		
Acute		
Inhalation		
LC50	Mouse	> 6.4 mg/l, 2 Hours
	Rat	2.117 mg/l, 2 Hours

Components	Species	Test Results
Oral		
LD50	Mouse	652 mg/kg
	Rat	644 mg/kg
EDTA (CAS 60-00-4)		
Acute		
Oral		
LD50	Rat	1700 mg/kg
Hydrochloric Acid (CAS 7647-01-0)		
Acute		
Dermal		
LD50	Mouse	1449 mg/kg
Inhalation		
LC50	Mouse	1108 ppm, 1 Hours
	Rat	2810 ppm, 1 Hours
		1405 ppm, 4 Hours
Oral		
LD50	Rabbit	900 mg/kg
Imidazole (CAS 288-32-4)		
Oral		
	Rat	970 mg/kg
		220 mg/kg
Sodium chloride (CAS 7647-14-5)		
Acute		
Oral		
LD50	Mouse	4000 mg/kg
	Rat	3000 mg/kg
Sodium Lauryl Sulfate (CAS 151-21-3)		
Acute		
Dermal		
LD50	Rabbit	580 mg/kg
Inhalation		
LC50	Rat	> 3900 mg/m3, 1 hr
Oral		
LD50	Rat	977 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Corrosivity

Sodium Lauryl Sulfate	Result: Irritant Severity: Mild - Moderate
Hydrochloric Acid	Severity: Corrosive
Imidazole	Severity: Corrosive
Diammonium Salt (ABTS)	Severity: Irritant

Serious eye damage/eye irritation Causes serious eye irritation.

Eye Contact

Sodium Lauryl Sulfate	Result: Irritant Severity: Moderate - Severe
Imidazole	Severity: Corrosive

Eye Contact

Diammonium Salt (ABTS)	Severity: Irritant
EDTA	Severity: Irritant
Hydrochloric Acid	Severity: Severe
Sodium chloride	Species: Rabbit Severity: Moderate

Respiratory or skin sensitization

Respiratory sensitization As with any protein, the possibility of allergic reactions exists.

Skin sensitization As with any protein, the possibility of allergic reactions exists. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Skin sensitization

Sodium Lauryl Sulfate	Result: Negative Species: Guinea pig
	Result: Negative Species: Mouse

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Mutagenicity

Sodium Lauryl Sulfate	Bacterial Mutagenicity - Ames (Salmonella) Result: Negative

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cacodylic acid (CAS 75-60-5)	2B Possibly carcinogenic to humans.
Hydrochloric Acid (CAS 7647-01-0)	3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Cacodylic acid (CAS 75-60-5)	Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

Cacodylic acid (CAS 75-60-5)	Known To Be Human Carcinogen.

Reproductive toxicity May damage the unborn child.

Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects. Avoid release to the environment.

Components		Species	Test Results
EDTA (CAS 60-00-4)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	113 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	34 - 62 mg/l, 96 hours
Hydrochloric Acid (CAS 7647-01-0)			
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	282 mg/l, 96 hours
Sodium chloride (CAS 7647-14-5)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	340.7 - 469.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	6020 - 7070 mg/l, 96 hours

Components		Species	Test Results
Sodium Lauryl Sulfate (CAS 151-21-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia obtusa)	9.2 - 10.4 mg/l, 48 hours
Fish	LC50	Carp, hawk fish (Cirrhinus mrigala)	1.36 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions This product may qualify as a RCRA Hazardous Waste. Status should be confirmed by testing for RCRA hazardous characteristics (i.e. corrosivity, toxicity, reactivity, or ignitability). Avoid release to the environment. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Cacodylic acid (CAS 75-60-5)	Listed.
EDTA (CAS 60-00-4)	Listed.
Hydrochloric Acid (CAS 7647-01-0)	Listed.

SARA 304 Emergency release notification

Hydrochloric Acid (CAS 7647-01-0)	5000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Cacodylic acid (CAS 75-60-5)	Cancer Liver Skin Respiratory irritation Nervous system Acute toxicity

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Hydrochloric Acid	7647-01-0	5000	500 lbs		

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Cacodylic acid (CAS 75-60-5)
Hydrochloric Acid (CAS 7647-01-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Hydrochloric Acid (CAS 7647-01-0)

Safe Drinking Water Act (SDWA) Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
Hydrochloric Acid (CAS 7647-01-0) 6545

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Hydrochloric Acid (CAS 7647-01-0) 20 %WV

DEA Exempt Chemical Mixtures Code Number
Hydrochloric Acid (CAS 7647-01-0) 6545

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
Cacodylic acid (CAS 75-60-5)
Hydrochloric Acid (CAS 7647-01-0)
Imidazole (CAS 288-32-4)

US. Massachusetts RTK - Substance List
Cacodylic acid (CAS 75-60-5)
EDTA (CAS 60-00-4)
Hydrochloric Acid (CAS 7647-01-0)

US. New Jersey Worker and Community Right-to-Know Act
Cacodylic acid (CAS 75-60-5)
EDTA (CAS 60-00-4)
Hydrochloric Acid (CAS 7647-01-0)

US. Pennsylvania Worker and Community Right-to-Know Law
Cacodylic acid (CAS 75-60-5)
EDTA (CAS 60-00-4)
Hydrochloric Acid (CAS 7647-01-0)

US. Rhode Island RTK
Cacodylic acid (CAS 75-60-5)
EDTA (CAS 60-00-4)
Hydrochloric Acid (CAS 7647-01-0)

US. California Proposition 65
WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
Cacodylic acid (CAS 75-60-5) Listed: May 1, 1996

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 08-11-2016

Version # 01

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