

1. Identification

Product identifier	ProFLOK®	
Other means of identification		
Synonyms	ProFLOK * Zoetis Diagnostic Test Kit - Poultry * ProFLOK® AE (Chicken) * ProFLOK® AIV PLUS (Chicken and Turkey) * ProFLOK® ALV+ 5PLT KIT * ProFLOK® BA (Turkey) * ProFLOK® CAV * ProFLOK® HEV (Turkey) * ProFLOK™ IBD Ab * ProFLOK® IBD Plus (Chicken) * ProFLOK® IBV (Chicken) * ProFLOK® ILT * ProFLOK® LT (Chicken) * ProFLOK® MG (Chicken and Turkey) * ProFLOK® MG-MS (Chicken and Turkey) * ProFLOK® MM (Turkey) * ProFLOK® MS (Chicken and Turkey) * ProFLOK® NDV (Turkey) * ProFLOK™ NDV Ab * ProFLOK® NDv Plus (Chicken) * ProFLOK® PM (Chicken and Turkey) * ProFLOK™ REO Ab	
Recommended use	Veterinary product used as diagnostic aid	
Recommended restrictions	Not for human use	
Manufacturer/Importer/Supplier/Distributor information		
Company Name (US)	Zoetis Inc. 10 Sylvan Way Parsippany, New Jersey 07054 (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	
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
	Carcinogenicity	Category 1A
	Reproductive toxicity	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 cause cancer. May damage fertility or the unborn child. 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. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

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

May cause skin irritation. Handle as potentially infectious.

3. Composition/information on ingredients**Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Sodium chloride - 20X Wash solution component		7647-14-5	<20
SDS - 5X Stop solution		151-21-3	5
Glycerol		56-81-5	<5
Small amount of EDTA in several kit components		60-00-4	<5
Cacodylic acid - Dilution buffer component		75-60-5	<1
Hydrochloric Acid		7647-01-0	<1
Imidazole - 20X Wash solution preservative		288-32-4	<1
Sodium borate - Dilution buffer component		1303-96-4	<1
ABTS substrate		30931-67-0	*
HRP conjugate		Not established	*
Thimerosal preservative in several kit components		54-64-8	##

Composition comments

Trace

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret. 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. For breathing difficulties, oxygen may be necessary.

Skin contact

Wash off immediately with soap and plenty of water. Remove contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

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. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Call a physician or poison control center immediately. Do not induce vomiting without advice from poison control center. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause skin irritation. Signs and symptoms might include skin rash, itching, redness or swelling. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

General information

IF exposed or concerned: Get medical advice/attention. Handle as potentially infectious. For personal protection, see section 8 of the SDS. 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. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
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.
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. Handle as potentially infectious. Wear appropriate protective equipment and clothing during clean-up. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. The standard biosafety practices for handling infectious materials should be followed. Prevent product from entering drains. Large Spills: Stop the flow of material, if this is without risk. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean surface thoroughly to remove residual contamination. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Use this product with adequate ventilation. Wear personal protective equipment. Handle as potentially infectious. The standard biosafety practices for handling infectious materials should be followed. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Avoid release to the environment. Do not empty into drains.
Conditions for safe storage, including any incompatibilities	Keep containers tightly closed in a cool, well-ventilated place. @ 2 - 7°C (36 - 45°F). Do not freeze. Protect from heat and light. Store away from direct sunlight. Keep away from heat, sparks and open flame. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Zoetis

Components	Type	Value
SDS - 5X Stop solution (CAS 151-21-3)	TWA	300 µg/m ³

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

Components	Type	Value
Cacodylic acid - Dilution buffer component (CAS 75-60-5)	TWA	0.01 mg/m ³

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

Components	Type	Value	Form
Cacodylic acid - Dilution buffer component (CAS 75-60-5)	PEL	0.5 mg/m3	
Glycerol (CAS 56-81-5)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
Hydrochloric Acid (CAS 7647-01-0)	Ceiling	7 mg/m3 5 ppm	

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
Thimerosal preservative in several kit components (CAS 54-64-8)	Ceiling	0.04 mg/m3
	TWA	0.01 mg/m3

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Cacodylic acid - Dilution buffer component (CAS 75-60-5)	TWA	0.01 mg/m3	
Hydrochloric Acid (CAS 7647-01-0)	Ceiling	2 ppm	
Sodium borate - Dilution buffer component (CAS 1303-96-4)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Thimerosal preservative in several kit components (CAS 54-64-8)	STEL	0.03 mg/m3	
	TWA	0.01 mg/m3	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Cacodylic acid - Dilution buffer component (CAS 75-60-5)	Ceiling	0.002 mg/m3
Hydrochloric Acid (CAS 7647-01-0)	Ceiling	7 mg/m3 5 ppm
Sodium borate - Dilution buffer component (CAS 1303-96-4)	TWA	5 mg/m3
Thimerosal preservative in several kit components (CAS 54-64-8)	STEL	0.03 mg/m3
	TWA	0.01 mg/m3

Biological limit values**ACGIH Biological Exposure Indices**

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

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

Exposure guidelines

US - California OELs: Skin designation

Thimerosal preservative in several kit components (CAS 54-64-8) Can be absorbed through the skin.

US - Tennessee OELs: Skin designation

Thimerosal preservative in several kit components (CAS 54-64-8) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Thimerosal preservative in several kit components (CAS 54-64-8) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Cacodylic acid - Dilution buffer component (CAS 75-60-5) Can be absorbed through the skin.
Thimerosal preservative in several kit components (CAS 54-64-8) Can be absorbed through the skin.

Control banding approach

Not available.

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. 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. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear suitable protective clothing. Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Whenever air contamination (mist, vapor or odor) is generated, respiratory protection is recommended as a precaution to minimize exposure. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Chemical respirator with organic vapor cartridge and full facepiece.

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	Contact with incompatible materials. Heat, flames and sparks. Sunlight. Excessive heat.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. May include products of carbon, nitrogen. Arsenic. Chlorine. May include hydrogen chloride.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
 ABTS substrate Severity: Irritant

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

SDS - 5X Stop solution Result: Irritant
 Severity: Mild - Moderate

Imidazole - 20X Wash solution preservative Severity: Corrosive

ABTS substrate Severity: Irritant

Glycerol Species: Rabbit
 Severity: Mild

Sodium chloride - 20X Wash solution component Species: Rabbit
 Severity: Mild

Eye contact Causes serious eye irritation.
 SDS - 5X Stop solution Result: Irritant
 Severity: Moderate - Severe

Imidazole - 20X Wash solution preservative Severity: Corrosive

ABTS substrate Severity: Irritant

Small amount of EDTA in several kit components Severity: Irritant

Glycerol Species: Rabbit
 Severity: Mild

Eye contact

Thimerosal preservative in several kit components

Species: Rabbit

Severity: Mild

Sodium chloride - 20X Wash solution component

Species: Rabbit

Severity: Moderate

Ingestion

May be harmful if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause skin irritation. Signs and symptoms might include skin rash, itching, redness or swelling. Prolonged exposure may cause chronic effects.

Information on toxicological effects**Acute toxicity**

May be harmful if swallowed. May be harmful if inhaled.

Components**Species****Test Results**

Glycerol (CAS 56-81-5)

Acute**Oral**

LD50

Rat

12600 mg/kg

Chronic**Oral**

LOAEL

Rat

16800 mg/kg, 28 days Endocrine system

Hydrochloric Acid (CAS 7647-01-0)

Acute**Dermal**

LD50

Mouse

1449 mg/kg

Imidazole - 20X Wash solution preservative (CAS 288-32-4)

Oral

Rat

970 mg/kg

220 mg/kg

SDS - 5X Stop solution (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

Small amount of EDTA in several kit components (CAS 60-00-4)

Acute**Oral**

LD50

Rat

1700 mg/kg

Sodium borate - Dilution buffer component (CAS 1303-96-4)

Acute**Dermal**

LD50

Rabbit

> 10000 mg/kg

Oral

LD50

Rat

396 mg/kg

Sodium chloride - 20X Wash solution component (CAS 7647-14-5)

Acute**Oral**

LD50

Mouse

4000 mg/kg

Rat

3000 mg/kg

Components	Species	Test Results
Thimerosal preservative in several kit components (CAS 54-64-8)		
Acute		
Oral		
LD50	Mouse	91 mg/kg
	Rat	75 mg/kg
Subcutaneous		
LD50	Rat	98 mg/kg
Skin corrosion/irritation	Based on available data, the classification criteria are not met. May cause skin irritation.	
Corrosivity		
SDS - 5X Stop solution		Result: Irritant Severity: Mild - Moderate
Imidazole - 20X Wash solution preservative		Severity: Corrosive
ABTS substrate		Severity: Irritant
Serious eye damage/eye irritation	Causes serious eye irritation.	
Eye Contact		
SDS - 5X Stop solution		Result: Irritant Severity: Moderate - Severe
Imidazole - 20X Wash solution preservative		Severity: Corrosive
ABTS substrate		Severity: Irritant
Small amount of EDTA in several kit components		Severity: Irritant
Glycerol		Species: Rabbit Severity: Mild
Thimerosal preservative in several kit components		Species: Rabbit Severity: Mild
Sodium chloride - 20X Wash solution component		Species: Rabbit Severity: Moderate
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Skin sensitization		
SDS - 5X Stop solution		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		
SDS - 5X Stop solution		Bacterial Mutagenicity - Ames (Salmonella) Result: Negative
Carcinogenicity	May cause cancer.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Cacodylic acid - Dilution buffer component (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 1910.1001-1052)		
Not regulated.		

US. National Toxicology Program (NTP) Report on Carcinogens

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

Reproductive toxicity May damage fertility or the unborn child.

Reproductivity

Glycerol

100 mg/kg Reproductive & Fertility-Males, Fertility
Result: LOEL
Species: Rat
Organ: Oral

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged exposure may cause chronic effects.

Further information Handle as potentially infectious.

12. Ecological information

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

Components		Species	Test Results
Glycerol (CAS 56-81-5)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	51000 - 57000 mg/l, 96 hours
Hydrochloric Acid (CAS 7647-01-0)			
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	282 mg/l, 96 hours
SDS - 5X Stop solution (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
Small amount of EDTA in several kit components (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
Sodium chloride - 20X Wash solution component (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

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

Bioaccumulative potential No data available for this product.

Mobility in soil No data available for this product.

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	Handle as potentially infectious. Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater. Dispose of contents/container in accordance with local/regional/national/international regulations. This product contains trace quantities of mercury and may qualify as a RCRA Hazardous Waste. Status should be confirmed using the EPA Toxicity Characteristic Leaching Procedure (TCLP).
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. This product contains trace quantities of mercury, releases to the environment should be avoided.
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.

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 - Dilution buffer component (CAS 75-60-5) Listed. Hydrochloric Acid (CAS 7647-01-0) Listed. Small amount of EDTA in several kit components (CAS 60-00-4) Listed.
SARA 304 Emergency release notification	Hydrochloric Acid (CAS 7647-01-0) 5000 LBS
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)	Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

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

SARA 311/312 Hazardous chemical

Classified hazard categories	Serious eye damage or eye irritation Carcinogenicity Reproductive toxicity
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SARA 313 (TRI reporting)

Not regulated.

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Cacodylic acid - Dilution buffer component (CAS 75-60-5)
 Hydrochloric Acid (CAS 7647-01-0)
 Thimerosal preservative in several kit components (CAS 54-64-8)

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

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Glycerol (CAS 56-81-5) Other Flavoring Substances with OSHA PEL's

US state regulations**California Proposition 65**

WARNING: This product can expose you to chemicals including Cacodylic acid - Dilution buffer component, which is known to the State of California to cause cancer. This product can expose you to chemicals including Thimerosal preservative in several kit components, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Cacodylic acid - Dilution buffer component (CAS 75-60-5) Listed: May 1, 1996

California Proposition 65 - CRT: Listed date/Developmental toxin

Thimerosal preservative in several kit components (CAS 54-64-8) Listed: July 1, 1990

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Cacodylic acid - Dilution buffer component (CAS 75-60-5)
 Hydrochloric Acid (CAS 7647-01-0)
 Imidazole - 20X Wash solution preservative (CAS 288-32-4)
 Sodium borate - Dilution buffer component (CAS 1303-96-4)

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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No

Country(s) or region	Inventory name	On inventory (yes/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 08-20-2019

Version # 01

Disclaimer Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time. The information in the sheet was written based on the best knowledge and experience currently available.

Revision information This document has undergone significant changes and should be reviewed in its entirety.