

SAFETY DATA SHEETS

This SDS packet was issued with item:

078468027

N/A

MATERIAL SAFETY DATA SHEET**MSDS #****Identity: Trifectant Tablet****Page 1 of 3****Product Code: 9125****Section I – Supplier Information:****Emergency Telephone Number:**

Vétoquinol USA (TOMLYN PRODUCTS, EVSCO PHARMACEUTICAL, Vet Solutions)

Address: 4250 N. Sylvania Ave.
Fort Worth TX 76137

1-800-285-0508

Section II – Hazardous Ingredients/ Identity Information

Hazardous Components	OSHA PEL	ACGIH TVL	STEL	CAS#	%(opt)
Trifectant (common name):					
Sulfamic Acid				5329-24-6	5%
Potassium Peroxomonosulfate				70693-62-8	50%
Potassium Persulfate				7721-21-1	2%

Section III – Physical/Chemical Characteristics

Boiling Point:	Not Applicable
Specific Gravity: (H ₂ O = 1)	Not Applicable
Vapor Pressure (mm Hg):	Not Applicable
Melting Point:	Not Applicable
Vapor Density (Air = 1):	Not Applicable
Evaporation Rate (butyl acetate = 1):	Not Applicable
Solubility in water:	Soluble : 12 tablets/L
pH:	2.6
Appearance and Odor:	Yellow tablet with no distinct odor

Section IV – Fire and Explosion Hazard Data

Flash Point (method used):	N/A
Flammable Limits:	LEL: Not Applicable UEL: Not Applicable
Extinguishing Media:	Water Spray, dry chemical, carbon dioxide, or foam suitable for the surrounding fire and materials
Unusual Fire and Explosion Hazards:	fire fighting personnel to wear breathing apparatus in event of fire. May emit sulphur dioxide under fire conditions.

Section V – Reactivity Data

Stability:	STABLE
Incompatibility:	Extreme Heat, alkaline products
Hazardous Decomposition or Byproducts:	SO ₂ released at temp > 70°C
Hazardous Polymerizations:	WILL NOT OCCUR
Conditions to Avoid:	None Known.

MATERIAL SAFETY DATA SHEET**MSDS #****Identity: Trifectant Tablet****Page 2 of 3****Product Code: 9125****Section VI – Health Hazard Data**

Routes of Entry: Inhalation? Yes Skin? Yes Ingestion? Yes

Health Hazards (Acute and Chronic):

SKIN: Dust may cause skin irritation specially under moist conditions (TRIFECTANT 1% solution is non-irritating (rabbit). EYES: Dust may cause eye damage (1% solution is non-irritating (rabbit). INHALATION: Dust causes Irritation to nose, throat, lungs, and respiratory tract. INGESTION: May cause severe irritation to mouth, throat, digestive tract and stomach.

Carcinogenicity: NTP? NO

IARC Monograph? NO

OSHA Regulated? NO

Signs and Symptoms of Exposure:

None Known.

Possible irritant to skin or eyes.

If inhaled material may be irritating to mucous membranes and upper respiratory tract.

May be harmful if swallowed.

Medical Conditions Generally Aggravated by Exposure:

None presently known.

Emergency and First Aid Procedures:

INGESTED: If appreciable quantities are swallowed, do not induce vomiting and call a physician or the Poison Control Center.

SKIN CONTACT: Wash affected areas promptly and thoroughly with soap and water, rinse thoroughly.

If irritation occurs, get medical attention.

EYE CONTACT: Immediately rinse eyes with water holding eyes open and rinse slowly with water for 15-20 minutes. Remove Contact Lenses, if persistent after the first 5 minutes.

If irritation persists, call a Poison Control Center or doctor for treatment.

INHALATION: Remove to fresh air and seek medical attention if irritated.

Note to Physician: This solution has a low oral and dermal toxicity, and is minimally irritating to the eyes and practically non-irritating to the skin. Treatment is controlled removal of exposure followed by symptomatic and supportive care.

Section VII – Precautions for Safe Handling and Use

Steps to be taken in Case Material is Released or Spilled:

Exercise appropriate precaution to minimize direct contact with skin/or eyes and prevent dust inhalation. Place in closed containers for disposal. Ventilate area and wash spill after material is completely picked up.

Waste Disposal Method: Dispose of in accordance with all applicable federal, state and local laws.

Precautions to be Taken in Handling and Storage: Avoid contact with eyes, skin and clothing.

Store at room temperature.

Do not freeze.

Other Precautions: Keep out of the reach of children, Wash hands after using product. Good practices require that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.

Section VIII – Control Measures

Respiratory Protection: Not necessary under recommended conditions of use.

Ventilation: Local Exhaust: Adequate

Special: Adequate

Mechanical (general): Adequate

Protective Gloves: Rubber gloves recommended.

Eye Protection: Goggles or face shield.

Other Protective Clothing or Equipment: Coveralls recommended.

Work Hygienic Practices: When using, do not eat, drink or smoke.

Wash hands after using.

MATERIAL SAFETY DATA SHEET

MSDS #**Identity: Trifectant Tablet****Page 3 of 3****Product Code: 9125**

Section IX – Additional Information

Tomlyn Products, Evsco Pharmaceuticals and Vet Solutions are registered trademarks of Vétoquinol USA.

Disclaimer of Expressed and Implied Warranties: This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibilities for safety and use not in accordance with label instructions.

Prepared By: JPS QA Department

New MSDS Dated: 10 November 2008

Supersedes MSDS Dated: 01 Nov. 2006

Trifectant Tablet**SAFETY DATA SHEET****(1) IDENTIFICATION**

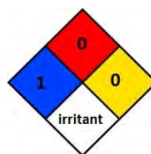
Name: Trifectant Tablet

Use: Disinfectant

Supplier: Vetoquinol USA (Tomlyn Products)
4250 N. Sylvania Ave
Fort Worth, TX 76137

Tel: (817)529-7500

Fax: (817)529-7506

(2) HAZARD(S) IDENTIFICATION

Hazard Classification: Irritant, corrosive

SKIN: Dust may cause skin irritation especially under moist conditions

EYES: Dust may cause eye damage.

INHALATION: Dust causes Irritation to nose, throat, lungs, and respiratory tract.

INGESTION: May cause severe irritation to mouth, throat, digestive tract and stomach.

(3) COMPOSITION/INFORMATION ON INGREDIENTS**Common Name: Trifectant Tablet**

Composition: A blend of an inorganic peroxygen compound, inorganic salts, organic acid, anionic detergent, fragrance and dye.

<u>Chemical</u>	<u>% Concentration</u>	<u>Classification</u>	<u>CAS</u>	<u>Exposure</u>
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	<50	C;R34. Xn;R22 R52	70693-62-8	None assigned
Sulphamidic acid	5 - 10	Xi;R36/38 R52/53	5329-14-6	None assigned
Sodium dodecylbenzenesulfonate	5 - 15	Xn;R22 Xi;R36/38	25155-30-0	None assigned
Dipotassium peroxodisulphate	<2%	O; R8 Xn; R22 Xi; R36/37/38 R42/43	7727-21-1	OES 1mg.m ⁻³ 8 hour TWA ref. period.

(4)

FIRST AID MEASURES**Exposure Route****Symptom****Treatment****INHALATION**

Irritation to nose, throat, lungs, respiratory tract.

Remove to fresh air. If symptoms of coughing, choking or wheezing prove troublesome, or recovery is not rapid, seek medical attention.

SKIN CONTACT

May cause irritation, especially under moist conditions.

Drench skin with plenty of water. Remove contaminated clothing. If irritation persists after rinsing with water, consult a medical advisor.

EYE CONTACT

Strong irritation, corrosion.

Rinse thoroughly with clean water or buffered eye wash for at least 15 minutes. Obtain medical attention.

INGESTION

May cause severe irritation to mouth, throat, digestive tract and stomach.

Do NOT induce vomiting. Drink plenty of water (or milk) if conscious. Obtain immediate medical attention

(5)

FIRE-FIGHTING MEASURES**Suitable****Extinguisher:**FOAM, DRY POWDER, CO₂**Special Precautions:** Trifectant powder itself is not flammable, but may assist combustion of other materials under exceptional circumstances, e.g. when involved in a fire.**Special Protective Equipment:** Fire-fighting personnel are required to wear self contained breathing apparatus in the event of a fire involving Trifectant powder, since release of Sulphur dioxide gas may occur.

(6)

ACCIDENTAL RELEASE PROCEDURES**Personal Precautions:** Wear protective equipment (see section 8). Prevent build up of dust as far as possible and remove sources of ignition.**Environmental precautions:** Do not allow the crushed or whole tablets to enter drains or water courses. Small quantities (<1kg) however may be diluted to waste via a treatment facility with large quantities of water. Observe local restrictions.**Methods for Cleaning up:** Sweep up carefully to prevent formation of dusts, preferably with aid of a suitable dry anti-dusting agent if available. Keep product dry, if possible, during clean-up procedure. Place in suitable containers for disposal. Prevent powder from becoming moist whilst awaiting disposal, if possible. Clean affected area thoroughly with water. Moist product awaiting disposal must be kept away from combustible material and stored in manner which allows suitable ventilation of the waste.

(7)

HANDLING AND STORING

Precautions during handling: Handle with sufficient care to prevent dust build up. Mix in a well ventilated area. Wear protective clothing. (see section 8).

Where significant dust formation occurs the use of a suitable dust mask may be required (see section 8).

Storage: Keep containers tightly sealed and avoid coming into contact with moisture, during storage. Keep away from combustible material.

(8)

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Appropriate Local Exhaust Ventilation (L.E.V.) is necessary for handling the product in situations where dust formation is a problem ie. product in bulk quantities. Not normally necessary for preparation of solutions from 50g, 2.5kg, 1kg and 5kg packs.

Control Parameters: Respirable dusts - 10mg/m³ 8 hr T.W.A. (OES EH40 2002).
Potassium persulphate – 1mg.m³ 8hr T.W.A (OES EH40 2002).

Personal Protection:

Respiratory: Powder Concentrate:
Where necessary, dust mask for fine particles (eg. 3M Type 8710).

Diluted Product:
When working in mists of Trifectant solution, respiratory protection in the form of a type AP (organic vapour - particulate matter) filter is recommended.

Hand: Rubber gloves

Eye: Goggles or face-shield

Skin: Overalls may be required for dealing with large spills or when handling the product in large quantities.

(9)

PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor: Yellow, hard round tablets with faint lemon odor.

pH: 2.6

Boiling point/Range: Decomposes on heating.

Flash Point: Not applicable.

Explosive properties: Not applicable.

Oxidising properties: Not oxidising.

Specific gravity: 1.07 approximately.

Solubility (water at 20°C): 65g/L

(10) STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to avoid:	Moisture ingress to the stored powder, which will cause rapid product degradation.
Materials to avoid:	Strong alkalis, Salt (Sodium chloride), Combustible materials
Hazardous decomposition products:	Oxygen, Sulphur dioxide. Chlorine under certain extreme conditions if powder is allowed to become moist.

(11) TOXICOLOGICAL INFORMATION**TEST DATA**

Acute oral toxicity: LD₅₀ (Rat), 4123mg/kg

Acute dermal toxicity: LD₅₀ (Rat) 2200mg/kg

Skin irritation: Tablet (crushed to powder):
Moderately irritating primary irritation index = 2.8

Trifectant 1% solution:
Non-irritating primary irritation index = 0

Eye irritation: Tablet (crushed to powder):
May cause eye damage

Trifectant 1% solution:
Non-irritating.

Human experience: The tablet product may cause eye irritant, irritant to skin and by inhalation of the dust.

(12) ECOLOGICAL INFORMATION

Persistence and degradability: No data is available. However, based on evaluation of its components this product is not expected to display long term adverse effects in the aquatic environment.

Bioaccumulation: Not noted.

Aquatic toxicity: Harmful to aquatic organisms.

(13) DISPOSAL CONSIDERATIONS

Disposal of product and Packaging: Dispose of in accordance with all applicable state, local, and federal laws.

(14) TRANSPORT INFORMATION

U.N. Number: None assigned
(CDG-CPL): Not classified
Sea (IMDG): Not classified
Road/Rail (RID/ADR): Not classified
Class Number: None assigned
Packing Group: None assigned
Proper Shipping Name: Not applicable
Marine Pollutant: No

(15) REGULATORY INFORMATION

Symbol: Irritant (Xi)



Irritant

R-Phrases:
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R52 Harmful to aquatic organisms.

S-Phrases:
S2 Keep out of reach of children
S22 Do not breathe the dust
S24/25 Avoid contact with skin and eyes
S26 In case of contact with eyes, rinse immediately with plenty of water, seek medical advice.

(16) OTHER INFORMATION

Uses: Disinfectant/Cleaning agent

Further product information: Consult Trifectant powder technical leaflet or Vetoquinol USA website www.vetoquinolUSA.com for further information.

Prepared by: James Spiezio, DVM
Scientific Affairs Manager
Vetoquinol USA

SDS Dated: 26 September 2014

Supersedes: MSDS dated 22 September 2011

TELEPHONE NUMBER: (817)529-7500

Vetoquinol  *a Sign of Passion*