

SAFETY DATA SHEETS

This SDS packet was issued with item:

078066378

N/A

MATERIAL SAFETY DATA SHEET**MSDS #920****Identity: 16% Dual-Quat****Page 1 of 2****Product Code:****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)
Water				7732-18-5	to 100%
n-Alkyl dimethyl benzyl ammonium chloride				8001-54-5	5-10%
Didecyldimethyl ammonium chloride				7173-51-5	5-10%
Tetrasodium EDTA				54-02-8	0-5%
Ethoxylate Nonylphenol				9016-45-9	0-5%
Amine Oxide				64878-65-9	5-10%
Sodium Hydroxide	2mg/m3	2mg.m3		1310-73-2	0-5%

Section III – Physical/Chemical Characteristics

Boiling Point:	212 °F
Specific Gravity: (H ₂ O = 1)	1.000
Vapor Pressure (mm Hg):	20 @68°F
Melting Point:	Not Applicable
Vapor Density (Air = 1):	Not Applicable
Evaporation Rate (butyl acetate = 1):	Not Applicable
Solubility in water:	Complete
Appearance and Odor:	Blue Liquid with a characteristic aroma

Section IV – Fire and Explosion Hazard Data

Flash Point (method used)	
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:	May emit toxic fumes under fire conditions.

Section V – Reactivity Data

Stability:	STABLE
Incompatibility:	None
Hazardous Decomposition or Byproducts:	
Hazardous Polymerizations:	WILL NOT OCCUR
Conditions to Avoid:	None Known.

MATERIAL SAFETY DATA SHEET**MSDS #920****Identity: 16% Dual-Quat****Page 2 of 2****Product Code:**

Section VI – Health Hazard Data

Routes of Entry: Inhalation? NO	Skin? Yes	Ingestion? Yes
Health Hazards (Acute and Chronic):	Skin: Sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals and or dermatitis Eye Contact: Irritant. Liquid and Mist may damage the eyes and cause corneal injury Ingestion: May be irritating to the mouth, throat, and gastrointestinal system. Vomiting and diarrhea expected with large doses.	
Carcinogenicity: NTP? NO	IARC Monograph? NO	OSHA Regulated? NO
Signs and Symptoms of Exposure:	see above 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:	DO NOT INDUCE Vomiting. Drink large quantities of water to dilute and seek medical attention	
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. Seek medical attention.	
INHALATION:	unlikely to occur	

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 vapor inhalation. Absorb on sand, vermiculite or wood shavings and 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 in closed Containers-Empty containers contain residue. Do not re-use to store food, clothing or products for human or animal use 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):	Not Applicable
Protective Gloves:	Water proof gloves recommended	
Eye Protection:	Safety glasses are recommended	
Other Protective Clothing or Equipment:	None generally required.	
Work Hygienic Practices:	When using, do not eat, drink or smoke. Wash hands after using.	

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: NST QA Department
New MSDS Dated: 10 November 2008
Supersedes MSDS Dated: 31 January 2005

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

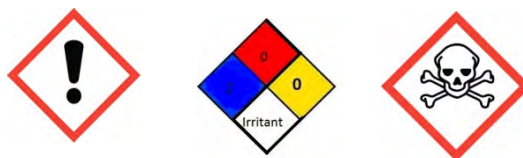
Name: 16% Dual Quat

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, Poison

SKIN: may cause skin irritation with prolonged contact

EYES: may cause eye damage.

INHALATION: may cause respiratory irritation with prolonged exposure.

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

May cause death if swallowed and untreated.

(3) COMPOSITION/INFORMATION ON INGREDIENTS

Common Name: 16% Dual Quat

Chemical	%Concentration	CAS	Exposure
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Water		7732-18-5	Not Assigned
n-Alkyl dimethyl benzyl ammonium chloride		8001-54-5	Not Assigned
Didecyldimethyl ammonium chloride		7173-51-5	Not Assigned
Tetrasodium EDTA		54-02-08	Not Assigned
Ethoxylate Nonylphenol		9016-45-9	Not Assigned
Amine Oxide		68478-65-9	Not Assigned
Sodium Hydroxide		1310-73-2	Not Assigned

(4) FIRST AID MEASURES

<u>Exposure Route</u>	<u>Symptom</u>	<u>Treatment</u>
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. May cause death	Do NOT induce vomiting. Drink plenty of water (or milk) if conscious. Obtain immediate medical attention. Contact

(5) FIRE-FIGHTING MEASURES**Suitable****Extinguisher:** FOAM, DRY POWDER, WATER, CO₂**Special Precautions:** 16% Dual Quat 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 16% Dual Quat, since release of Sulphur dioxide gas may occur.

(6) ACCIDENTAL RELEASE PROCEDURES**Personal Precautions:** Wear protective equipment (see section 8).**Environmental precautions:** Do not allow 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:** Stop discharge and contain material. Substantial quantities may be recovered with a vacuum pump. Use absorbent materials to capture spills, and place in suitable container. Wash thoroughly with soap and water.

(7)

HANDLING AND STORING

Precautions during handling: Handle with sufficient care to prevent spilling. Mix in a well ventilated area. Wear protective clothing. (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.

Personal Protection:

Respiratory: When working in mists product, 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: Clear liquid with distinct ammonia like smell.

pH: 2.6

Boiling point/Range: 212°F

Flash Point: Not applicable.

Explosive properties: Not applicable.

Oxidising properties: Not oxidising.

Specific gravity: 1.0 .

Solubility (water at 20°C): soluble

(10) STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: High heat and freezing

Materials to avoid: Combustible materials

Hazardous decomposition products: Ammonia, CO, CO₂

(11) TOXICOLOGICAL INFORMATION**TEST DATA**

Skin irritation: Irritant Prolonged or excessive exposure may cause dermatitis

Eye irritation: Irritant Liquid and mist may cause corneal damage.

Human experience: The product is a strong eye irritant, moderate irritant to skin and inhalation of mist.

(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) Poison

**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
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 16% Dual Quat 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 31, January 2005

TELEPHONE NUMBER: (817)529-7500 **Poison Control: 800-222-1222**