

MATERIAL SAFETY DATA SHEET

Section I – Product Information					
Product Name or Identity:	DIMETHYL SULFOXIDE (DMSO)-90%				
Manufacturer's Name:	Neogen Corporation	Emergency Phone No.	859 254 1221		
	944 Nandino Blvd.	Fax No.:	859 255 5532		
	Lexington, KY 40511	e-mail:	inform@neogen.com		
Date Prepared or Revised: 11/15/05					

Section II – Hazardous Ingredients / Identity Information					
Hazardous Components	OSHA PEL	ACGIH TLV	Toxicity Data		
(Specific Chemical Identity: Common Names)	(Permissible	(Threshold	LD_{50}		
	Exposure Limits)	Limit Value)			
DIMETHYL SULFOXIDE (DMSO) 90% v/v CAS 67-68-5	Not established	Not established	Oral-Rat		
			14,500-28,300		
			mg/kg		

Section III – Physical Characteristics				
Boiling Point:: 460°F, 238°C	Specific Gravity (H ₂ O = 1): 1.096			
Vapor Pressure (mm Hg.): 0.030 mmHg	Melting Point: N/A			
Vapor Density (AIR = 1): N/A	Evaporation Rate (Butyl Acetate = 1): N/A			
Solubility in Water: Very Soluble				
Appearance and Odor: Colorless, nearly odorless flammable liquid.				

Section IV – Fire and Explosion Hazard Data					
Flash Point (Method Used): 203°F Open cup	Flammable Limits: LEL (Lower Explosive Limit) – 3.0-3.5% by volume				
	UEL (Upper Explosive Limit) – 42-63% by volume				
Extinguishing Media: Water fog, foam. CO2, dry chemical					
Special Fire Fighting Procedures: None					
Unusual Fire and Explosion Hazards: Combustion gases contain sulfur oxides.					

Section V – Reactivity Data					
Stability	Unstable	Conditions to Avoid: N/A		ons to Avoid: N/A	
	Stable	Х			
Incompatibility (Materials to Avoid): Perchloric acids, perchlorates					
Hazardous Decomposition or Byproducts: Sulfur oxides					
Hazardous May Occur Polymerization			Conditions to Avoid: N/A		
	Will Not C	ocur	Х		

Section VI – Health Hazard Data					
Route(s) of Entry:	Inhalation-Minor Skin and eyes-On contact		Ingestion-Minor		
Health Hazards Repeated contact have product (Acute and Chronic) and skin.		ced corneal opacity in experimental anima	ls. Avoid contact with eyes		
Carcinogenicity: NTI	P- No	IARC Monographs- No	OSHA Regulated- Yes		
(Nat	ional Toxicology Program)	(International Agency for Research in Cancer)			
Signs and Symptoms of Exposure: DMSO has shown very few symptoms in humans. The most common are nausea, skin rashes and an unusual garlic-onion-oyster smell on body and breath. Inhalation of high vapor concentrations may cause headache, dizziness, and sedation. Medical Conditions Generally Aggravated by Exposure:					
Emergency / Ing					
Procedures Inhalation: If inhaled, move to fresh air. Seek medical attention if symptoms persist.					
Еує	Contact: Flush eyes with copio	ous amounts of water. Seek medical atten	tion.		
Ski					

Section VII – Precautions for Safe Handling and Use

Accidental Release Measures: Eliminate all sources of ignition. Flush spill area with water spray. Prevent runoff from entering drains, sewers and streams.

Waste Disposal Method: Soak up spilled material with an absorbent. Dispose of as locally required.

Handling and Storing: Avoid eye and skin contact. Store at room temperature away from sources of ignition.

Other Precautions: DMSO may carry other chemicals dissolved in it through the skin and into the bloodstream. Avoid contact with eyes and skin.

Section VIII – Control Measures				
Respiratory Protection (Specify Type): Do not breathe vapors.				
Ventilation	Local Exhaust: Adequate	Special		
	Mechanical (General):	Other		
Protective Gloves: Solvent resistant Eye Protection: Tight fitting safety goggles.				
Other Protective Clothing or Equipment: Avoid contact with skin				
Work / Hygienic Practices: Do not breathe vapors. Do not get in eyes or on the skin or clothing. Avoid prolonged exposure. Wash hands with soap and water after use.				

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.



February 18, 2014

To whom it may concern:

This letter is to inform you that none of the Vetri-Science Laboratories nutritional supplements require a Material Safety Data Sheet (MSDS). These products are not considered hazardous, nor do they contain any hazardous materials.

Both Vetri-Repel Spray and Vetri-Repel Wipes do have a MSDS. These are topical products for which the MSDS can be provided upon written request.

Please retain this letter for your files.

Sincerely,

Sara J Phillips Strategic Brand Manager