

#### SAFETY DATA SHEET

Doc. ID: VDM-4-75 Rev. AA Issued (year/month/day) 2015/05/21

### Section 1 Identification of the Substance/mixture and of the Company/undertaking

1.1 Product Identifier

Product Name Lumigen VDM

Part Number VDM-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

**Product Use** For laboratory use only. See product literature for details.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Lumigen,Inc. (A Beckman Coulter

company)

22900 W. Eight Mile Road Southfield, MI 48033, U.S.A.

Tel:248-351-5600

e-mail address ksrashid@beckman.com

1.4 Emergency telephone number

Telephone number (24H) ChemTel Expert Assistance

Hotline/MSDS Fax Access by dialing 800-255-3924 or for

International +01-813-248-0585

#### Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description Compound

White to yellow; Opaque; Solid; Odorless

Classification according to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

Classification according to EC Directives 1999/45/EC and 67/548/EEC

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS

Not classified as hazardous per US-OSHA HCS 2012 and UN GHS

2.2 Label Elements According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

**2.3 Other hazards** Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.



## **Section 3 Composition and Information on Ingredients**

3.2 Mixtures

Hazardous Ingredients: None

#### **Section 4 First Aid Measures**

4.1 Description of first aid measures

**Inhalation** If powder is inhaled, move exposed individual to fresh air. If individual is not

breathing, begin artificial respiration immediately and obtain medical attention.

**Eye Contact** If product enters eyes, wash eyes gently under running water for 15 minutes

or longer, making sure that the eyelids are held open. If pain or irritation occur,

obtain medical attention.

**Skin Contact** In case of skin contact, flush with copious amounts of water for at least 15

minutes. Remove contaminated clothing and shoes. If pain or irritation occur,

obtain medical attention.

**Ingestion** If ingested, wash mouth out with water. If irritation or discomfort occurs, seek

medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 Toxicological Information for more detailed health information.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

#### **Section 5 Fire Fighting Measures**

Flammable Properties Nonflammable

**5.1 Extinguishing Media** In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam.

For large fires use extinguishing media suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards

No special hazards determined.

**Hazardous Combustion Products** 

No combustion products posing significant hazards are expected from this

product.

5.3 Advice for fire fighters

**Protective Equipment** Self-contained breathing apparatus is recommended for firefighters in all

chemical fire situations.

**5.4** Additional information No further relevant information available.

#### **Section 6 Accidental Release Measures**

6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Observe general safety guidelines for protection; avoid eye and skin contact.

Wear protective gloves, protective clothing and eye/face protection.

**6.2 Environmental Precautions** No special requirements.

6.3 Methods and material for containment and cleaning up

**Spill and Leak Procedures** Carefully sweep up spilled material and place in a container suitable for disposal.

Avoid generating dust.

**6.4 Reference to other sections** Refer sections 8 and 13.

### **Section 7 Handling and Storage**

7.1 Precautions for safe handling Use good laboratory procedures; avoid eye and skin contact.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from incompatible material (see Section 10).

To maintain efficacy, store according to the instructions in the product labeling.

**7.3 Specific end uses** No further relevant information available.

#### **Section 8 Exposure Controls and Personal Protection**

8.1 Control parameters

**Exposure Limits** 

US OSHA

ACGIH

None established

DFG MAK

Ireland

None established

8.2 Exposure controls

**Engineering Controls**No special engineering controls are required. Use with good general ventilation.

**Eye Protection** Safety glasses or chemical goggles should be worn to prevent eye contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate

government standards.



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## **Section 8 Exposure Controls and Personal Protection (Continued)**

**Skin Protection** Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin

contact.

Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate

government standards.

**Respiratory Protection**Under normal conditions, the use of this product should not require respiratory

protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory

protection should be evaluated by a qualified professional.

#### **Section 9 Physical and Chemical Properties**

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9.1	Information on basic physical and chemical properties				
	Physical State	Solid	Specific Gravity (Water=1.0)	None determined	
	Color	White to yellow	Solubility		
	Transparency	Opaque	Water	Not determined	
	Odor	Odorless	Organic	Soluble	
	рН	Not determined	Partition coefficient: n-octanol/water	Not determined	
	Melting Point	Not determined	Auto-ignition Temp.	Not applicable	
	Boiling Point	Not determined	Decomposition Temperature	Not determined	
	Flash Point	Not applicable	Percent Volatiles	Not available	
	<b>Evaporation Rate</b>	Not determined	Vapor Pressure	Not determined	
	Flammability (Solid, Gas)	Not available	Viscosity	Not determined	
	Flammability Limits	Not applicable	<b>Explosive Properties</b>	Not applicable	
	Vapor Density	Not determined	Oxidizing Properties	Not determined	
	Odor Threshold	Not applicable			
9.2	Other Information	No further relevant information available.			

### **Section 10 Stability and Reactivity**

**10.1 Reactivity** No data available.

**10.2 Chemical Stability** Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

No further relevant information available.

## **Section 10 Stability and Reactivity (Continued)**

**10.4 Conditions to Avoid**To maintain product performance keep away from strong acids, strong bases,

strong oxidizers.

Avoid exposure to heat and direct sunlight.

**10.5** Incompatible materials No further relevant information available.

10.6 Hazardous Decomposition Products

No decomposition products posing significant hazards would be expected from

this product (an aqueous solution).

#### **Section 11 Toxicological Information**

11.1 Information on toxicological effects

**Toxicity Data for Hazardous Ingredients** 

Not applicable

**Primary Routes of Exposure** Eye contact, ingestion, inhalation, and skin contact.

Skin Corrosion/Irritation No data available.

Serious eye damage/eye

irritation

No data available.

Respiratory/skin sensitization No data available.

**Carcinogenicity** No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP,

OSHA or 67/548/EEC Annex I.

Germ cell mutagenicity

No data available

Reproductive Toxicity

No data available.

Specific target organ toxicity - single exposure

No data available.

Specific target organ toxicity - repeated exposure

No data available.

**Aspiration hazard** No data available.

**Other Information** No further relevant information available.

# **Section 12 Ecological Information**

12.1 Ecotoxicity

Fresh Water Species
Microtox
Water Flea
Fresh Water Algae

No information available.



#### **Section 12 Ecological Information (Continued)**

12.3 Bioaccumulation No information available.12.4 Mobility in soil No information available.

12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

**12.6 Other Adverse Effects** No further relevant information available.

#### **Section 13 Disposal Considerations**

13.1 Waste treatment methods

**Product Waste Disposal** Chemical residues and remains should be routinely handled as special waste. This

must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Package disposal Dispose of waste product, unused product and contaminated packaging in

compliance with federal, state and local regulations. If unsure of the applicable

requirements, contact the authorities for information.

**13.2 Additional information** Suggested European waste catalogue 18 01 07 - chemicals other than those

mentioned in 18 01 06. Dispose in accordance with national, state and local

waste regulations.

#### **Section 14 Transport Information**

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

# **Section 15 Regulatory Information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture US Federal and State Regulations

SARA 313 No ingredients listed.

Massachusetts MSL No ingredients listed.

New Jersey Dept. of Health RTK List

California Proposition 65

No ingredients listed.

No ingredients listed.

Pennsylvania RTK No ingredients listed.

**EU Regulations** 

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.

No ingredients listed.

According to EC Directives (1999/45/EC and 67/548 EEC)

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)



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#### **Section 15 Regulatory Information (Continued)**

#### Canada

This product does not meet WHMIS criteria for hazardous materials.

PIN Not applicable

**Ingredients on Ingredient Disclosure List** 

None

Ingredients with unknown toxicological properties

None

**15.2 Chemical Safety Assessment** A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

#### **Section 16 Other Information**

Safety Ratings	Flammability: 0 Health: 1 Reactivity with Water: 0 Contact: 1	Code 0=None 1=Slight 2=Caution 3=Severe			
Revision Changes	New document	New document			
Abbreviations and Acronyms	ACGIH - American Conference of Governmental Industrial Hygienists ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road				
	CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act CLP - Classification, Labeling and Packaging DFGMAK - Republic Germany's maximum exposure limit GHS - Globally Harmonized System HCS - Hazard Communication Standard				
	IARC - International Agency for Rese	arch on Cancer			
	IATA - International Air Transport Ass	IATA - International Air Transport Association ICAO - International Civil Aviation Organization IMDG - International Maritime Dangerous Goods IOELVs - European Unions' Indicative Occupational Exposure Limit Values			
	ICAO - International Civil Aviation Org				
	IMDG - International Maritime Dange				
	IOELVs - European Unions' Indicative				
	NIOSH - National Institute for Occupational Safety and Health NTP - National Toxicology Program				
	OSHA - Occupational Safety and Health Administration				
	PBT - Persistent bioaccumulative and	PBT - Persistent bioaccumulative and toxic substances			
	SARA - Superfund Amendments and Reauthorization Act				

TDG - Canadian Transportation Of Dangerous Goods Regulations.

UN GHS - United Nations Globally Harmonized System US DOT - United States Department of Transportation

WHMIS - Workplace Hazardous Material Information System



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#### **Section 16 Other Information (Continued)**

vPvB - Very persistent and very bioaccumulative substances

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