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#### Safety Data Sheet



#### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

**Product Name** Multidex® Gel Wound Dressing

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

use(s)

Relevant identified • A hydrophilic Maltodextrin NF wound dressing clinically proven to promote the growth of granulation tissue and epithelial proliferation.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer

• DeRoyal Industries, Inc.

200 DeBusk Lane Powell, TN 37849 **United States** www.deroyal.com

customerservice@deroyal.com

**Telephone (General)** • 800-251-9864

#### 1.4 Emergency telephone number

• 800-524-3416

#### Section 2: Hazards Identification

#### **EU/EEC**

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

#### 2.1 Classification of the substance or mixture

CLP Not classified DSD/DPD Not classified

#### 2.2 Label Elements

CLP

Hazard • No label element(s) required

statements

DSD/DPD

Risk phrases • No label element(s) required

#### 2.3 Other Hazards

• According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered CLP

hazardous.

DSD/DPD According to European Directive 1999/45/EC this preparation is not considered dangerous.

Format: EU CLP/REACH Language: English (US) Preparation Date: 12/March/2015 WHMIS, UN GHS, EU CLP, EU DSD/DPD, OSHA HCS 2012

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#### **UN GHS**

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

#### 2.1 Classification of the substance or mixture

UN GHS

• Eye Mild Irritation 2B

#### 2.2 Label elements

**UN GHS** 

WARNING

Hazard • Causes eye irritation

statements

#### **Precautionary statements**

Prevention • Wash thoroughly after handling.

**Response** • IF IN EYES: Rinse cautiously with water for fifteen minutes. If present, remove contact lenses and continue rinsing. If eye irritation persists, get medical advice/attention.

#### 2.3 Other hazards

**UN GHS** 

 According to the Globally Harmonized System for Classification and Labeling (GHS), this product is considered hazardous.

#### **United States (US)**

According to: OSHA 29 CFR 1910.1200 HCS

#### 2.1 Classification of the substance or mixture

OSHA HCS 2012 • Eye Mild Irritation 2B

#### 2.2 Label elements

#### OSHA HCS 2012 WARNING

Hazard • Causes eye irritation

statements

#### **Precautionary statements**

Prevention • Wash thoroughly after handling.

**Response** • IF IN EYES: Rinse cautiously with water for fifteen minutes. If present, remove contact lenses and continue rinsing. If eye irritation persists, get medical advice/attention.

#### 2.3 Other hazards

**OSHA HCS 2012** • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

#### Canada

**According to: WHMIS** 

#### 2.1 Classification of the substance or mixture

WHMIS . Not classified

#### 2.2 Label elements

WHMIS • No label element(s) required.

#### 2.3 Other hazards

**WHMIS** • In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

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WHMIS, UN GHS, EU CLP, EU DSD/DPD, OSHA HCS 2012

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#### Section 3 - Composition/Information on Ingredients

#### 3.1 Substances

• Material does not meet the criteria of a substance.

#### 3.2 Mixtures

			Composition		
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Maltodextrin	CAS:9050-36-6 EC Number:232- 940-4	< 75%	NDA	UN GHS: Not Classified EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Glycerin	CAS:56-81-5 EC Number:200- 289-5	0% TO 10%	Ingestion/Oral-Rat LD50 • 12600 mg/kg	UN GHS: Eye Irrit. 2; EU DSD/DPD: Not classified EU CLP: Not classified OSHA HCS 2012: Eye Irrit. 2	NDA
L-Ascorbic acid	CAS:50-81-7 EINECS:200-066-2	1%	Ingestion/Oral-Rat LD50 • 11900 mg/kg	UN GHS: Not Classified EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA

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

#### 4.1 Description of first aid measures

Inhalation

• Move victim to fresh air. Get medical attention if symptoms occur.

Skin

• First-aid is not expected to be necessary under normal conditions of use.

Eye

• If direct eye contact occurs, flush with gently flowing fresh water thoroughly. Get medical

attention if symptoms occur.

Ingestion

• Rinse mouth with water. Get medical attention if symptoms occur.

#### 4.2 Most important symptoms and effects, both acute and delayed

• Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician • No specific actions or treatments recommended related to exposure to this material.

# **Section 5 - Firefighting Measures**

#### 5.1 Extinguishing media

Suitable Extinguishing Media

• Water, Carbon Dioxide, or Dry Chemical

**Unsuitable Extinguishing Media** 

• No data available

#### 5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • None

**Hazardous Combustion Products** 

No data available

5.3 Advice for firefighters

• Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

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WHMIS, UN GHS, EU CLP, EU DSD/DPD, OSHA HCS 2012

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#### Section 6 - Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions** 

• It is unlikely that this product, when spilled, will cause a problem; packaged as individual packets. Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE).

**Emergency Procedures** 

• No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

#### 6.2 Environmental precautions

• None expected to be necessary under normal conditions of use.

### 6.3 Methods and material for containment and cleaning up

Containment/Clean-up

• Wipe or mop up.

Measures

#### 6.4 Reference to other sections

 Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

#### Section 7 - Handling and Storage

#### 7.1 Precautions for safe handling

Handling • Good housekeeping and sanitary procedures. Do not get in eyes. Wash thoroughly with soap and water after handling.

#### 7.2 Conditions for safe storage, including any incompatibilities

**Storage** • Store away from heat sources.

#### 7.3 Specific end use(s)

• Refer to Section 1.2 - Relevant identified uses.

## **Section 8 - Exposure Controls/Personal Protection**

#### 8.1 Control parameters

**Exposure Limits/Guidelines** 

No data available

8.2 Exposure controls

Engineering Measures/Controls • No special engineering measures/controls expected to be necessary under normal conditions of use.

**Personal Protective Equipment** 

Respiratory

· None required under normal conditions of use.

Eye/Face

Wear appropriate eye protection.

Skin/Body

Wear appropriate gloves.

**Environmental Exposure** 

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Controls

• Follow best practice for site management and disposal of waste.

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

#### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Tan gel with little odor.
Color	Tan	Odor	Little odor
Odor Threshold	No data available		
General Properties	-	·	•
Boiling Point	No data available	Melting Point	No data available
Decomposition Temperature	No data available	рН	No data available
Specific Gravity/Relative Density	No data available	Water Solubility	Soluble
Viscosity	No data available	Explosive Properties	No data available
Oxidizing Properties:	No data available		
Volatility	-	<u>-</u>	-
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	Volatiles (Wt.)	No data available
Flammability			
Flash Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		
	-		

#### 9.2 Other Information

No additional physical and chemical parameters noted.

# **Section 10: Stability and Reactivity**

#### 10.1 Reactivity

• No dangerous reaction known under normal conditions of use.

#### 10.2 Chemical stability

Stable

#### 10.3 Possibility of hazardous reactions

• Hazardous polymerization will not occur.

#### 10.4 Conditions to avoid

None

#### 10.5 Incompatible materials

• Strong oxidizing agents

#### 10.6 Hazardous decomposition products

Oxides of carbon

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# **Section 11 - Toxicological Information**

#### 11.1 Information on toxicological effects

GHS Properties	Classification
Acute toxicity	EU/CLP•No data available OSHA HCS 2012• No data available UN GHS• No data available
Aspiration Hazard	EU/CLP• No data available OSHA HCS 2012• No data available UN GHS• No data available
Carcinogenicity	EU/CLP• No data available OSHA HCS 2012• No data available UN GHS• No data available
Germ Cell Mutagenicity	EU/CLP• No data available OSHA HCS 2012• No data available UN GHS• No data available
Skin corrosion/Irritation	EU/CLP• No data available OSHA HCS 2012• No data available UN GHS• No data available
Skin sensitization	EU/CLP• No data available OSHA HCS 2012• No data available UN GHS• No data available
STOT-RE	EU/CLP• No data available OSHA HCS 2012• No data available UN GHS• No data available
STOT-SE	EU/CLP• No data available OSHA HCS 2012• No data available UN GHS• No data available
Toxicity for Reproduction	EU/CLP• No data available OSHA HCS 2012• No data available UN GHS• No data available
Respiratory sensitization	EU/CLP• No data available OSHA HCS 2012• No data available UN GHS• No data available
Serious eye damage/Irritation	EU/CLP• No data available OSHA HCS 2012•Eye Mild Irritation 2B UN GHS•Eye Mild Irritation 2B

#### **Potential Health Effects**

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Inhalation

Acute (Immediate) • Under normal conditions of use, no health effects are expected.

Chronic (Delayed) • No data available

Skin

Acute (Immediate) • Under normal conditions of use, no health effects are expected.

Chronic (Delayed) • No data available

Eye

Acute (Immediate) • Under normal conditions of use, no health effects are expected.

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Chronic (Delayed) • No data available

#### Ingestion

Acute (Immediate) • Under normal conditions of use, no health effects are expected.

Chronic (Delayed) • No data available

### **Section 12 - Ecological Information**

#### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in Soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No PBT and vPvB assessment has been conducted.

#### 12.6 Other adverse effects

· No studies have been found.

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

#### 13.1 Waste treatment methods

Product waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

# **Section 14 - Transport Information**

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	Not Regulated	Not Regulated	NDA	NDA	NDA
TDG	Not Regulated	Not Regulated	NDA	NDA	NDA
IMO/IMDG	Not Regulated	Not Regulated	NDA	NDA	NDA
IATA/ICAO	Not Regulated	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user •

None specified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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· No data available

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# **Section 15 - Regulatory Information**

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

#### SARA Hazard Classifications • None

	Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA	Korea KECL
Glycerin	56-81-5	Yes	No	Yes	No	Yes	Yes
L-Ascorbic acid	50-81-7	Yes	No	Yes	No	Yes	Yes
Maltodextrin	9050-36-6	Yes	No	Yes	No	Yes	Yes

#### Canada

#### Labor

#### Canada - WHMIS - Classifications of Substances

•L-Ascorbic acid	50-81-7	Uncontrolled product according to WHMIS classification criteria
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Uncontrolled product according to WHMIS classification criteria
Canada - WHMIS - Ingredient Disclosure List		
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed
Environment		
Canada - CEPA - Priority Substances List		
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed

#### Korea

#### Labor

Korea - ISHA - Harmful Substances Prohibited for Manufacturing, Importing,	Transferring, or Sup	plying
•L-Ascorbic acid	50-81-7	Not Listed
Maltodextrin	9050-36-6	Not Listed

Waltodextill	3030 30 0	140t LISTOU
•Glycerin	56-81-5	Not Listed
Korea - ISHA - Harmful Substances Requiring Permission		
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed

# •Glycerin 56-81-5 Korea - ISHA - Name Toxicity and Protective Measures of New Chemical Substances

Korea - ISHA - Name, Toxicity and Protective Measures of New Chemical Substances			
•L-Ascorbic acid	50-81-7	Not Listed	
•Maltodextrin	9050-36-6	Not Listed	
•Glycerin	56-81-5	Not Listed	

Not Listed

#### **Environment**

#### Korea - MOE - Toxic Chemicals Control Act (TCCA) - Observational Chemicals

•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed

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United States		
Labor		
U.S OSHA - Process Safety Management - Highly Hazardous Chemicals		
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed
U.S OSHA - Specifically Regulated Chemicals		
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed
Environment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities	50.04.7	NI district
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs	56-81-5	Not Listed
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs	30-01-3	NOT LISTEU
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed
United States - California		
Environment		
U.S California - Proposition 65 - Carcinogens List		

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U.S California - Proposition 65 - Carcinogens List		
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)		
•L-Ascorbic acid	50-81-7	Not Listed

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•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•Glycerin	56-81-5	Not Listed

#### 15.2 Chemical Safety Assessment

• No Chemical Safety Assessment has been carried out.

#### Section 16 - Other Information

# Last Revision Date

• 12/March/2015

# Preparation Date

• 12/March/2015

# Disclaimer/Statement of Liability

• The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. However, no warranty or representation, express or implied is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

#### **Key to abbreviations** NDA = No data available

Preparation Date: 12/March/2015