Multidex® Powder Wound Dressing 1 | P a g e

## **Safety Data Sheet**



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

#### 1.1 Product identifier

Product Name • Multidex® Powder Wound Dressing

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

Relevant identified use(s)

• 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 classifiedDSD/DPD • Not classified

#### 2.2 Label Elements

**CLP** 

Hazard statements • No label element(s) required

DSD/DPD

Risk phrases • No label element(s) required

#### 2.3 Other Hazards

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

hazardous.

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

#### **UN GHS**

**According to Third Revised Edition** 

#### 2.1 Classification of the substance or mixture

**UN GHS** 

Not classified

#### 2.2 Label elements

**UN GHS** 

Hazard statements • No label element(s) required

#### 2.3 Other hazards

**UN GHS** 

• According to the Globally Harmonized System for Classification and Labeling (GHS) this product is not considered hazardous.

# **United States (US)**

According to OSHA 29 CFR 1910.1200 HCS

#### 2.1 Classification of the substance or mixture

OSHA HCS 2012 • Not classified

#### 2.2 Label elements

**OSHA HCS 2012** 

Hazard • No label element(s) required

statements

#### 2.3 Other hazards

**OSHA HCS 2012** 

 This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

#### 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).

## Section 3 - Composition/Information on Ingredients

#### 3.1 Substances

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• 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	> 80%	NDA	UN GHS: Not Classified EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA	
L-Ascorbic Acid	CAS:50-81-7 EINECS:200-066-2	< 5%	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	
D-Fructose	CAS:57-48-7 EINECS:200-333-3	< 5%	NDA	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

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

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

**Eye**• If contact with eyes directly, flush with gently flowing fresh water thoroughly. Get medical attention

if symptoms occur.

• 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

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

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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 Measures

 Use normal clean up procedures. Sweep up and remove immediately. Avoid generating dust

#### 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

Avoid breathing dust. Do not get in eyes.

# 7.2 Conditions for safe storage, including any incompatibilities

• 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 applicable exposure limits available for product or components.

#### 8.2 Exposure controls

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

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

# 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	White powder with little odor
Color	White	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	Not relevant
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		•	-
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	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

• Practices which produce dust.

#### 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•No data available UN GHS•No data available

## **Potential Health Effects**

Preparation Date: 12/January/2015

#### 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.

Chronic (Delayed) • No data available

#### Ingestion

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

Chronic (Delayed) • No data available

#### Key to abbreviations

LD = Lethal Dose

TD = Toxic Dose

# **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

• 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**

Preparation Date: 12/January/2015

	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

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

IMO/IMDG	Not regulated	Not Regulated	NDA	NDA	NDA
IATA/ICAO	Not regulated	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for

• None specified

user

14.7 Transport in bulk according to Annex II of MARPOL 73/78

and the IBC Code

**14.7 Transport in** • No data available

# **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
D-Fructose	57-48-7	Yes	No	Yes	No	Yes
L-Ascorbic acid	50-81-7	Yes	No	Yes	No	Yes
Maltodextrin	9050-36-6	Yes	No	Yes	No	Yes

#### Canada

#### Labor

Canada - WHMIS - Classifications of Sub-	stances
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U.S. - OSHA - Specifically Regulated Chemicals

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•L-Ascorbic acid	50-81-7	Uncontrolled product according to WHMIS classification criteria
<ul><li>Maltodextrin</li></ul>	9050-36-6	Not Listed
•D-Fructose	57-48-7	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
•D-Fructose	57-48-7	Not Listed
Environment		
Canada - CEPA - Priority Substances List		
•L-Ascorbic acid	50-81-7	Not Listed
<ul><li>Maltodextrin</li></ul>	9050-36-6	Not Listed
•D-Fructose	57-48-7	Not Listed
United States		
Labor		
U.S OSHA - Process Safety Management - Highl	y Hazardous Chemicals	
•L-Ascorbic acid	50-81-7	Not Listed
•Maltodextrin	9050-36-6	Not Listed
•D-Fructose	57-48-7	Not Listed

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	•L-Ascorbic acid	50-81-7	Not Listed
	•Maltodextrin	9050-36-6	Not Listed
	•D-Fructose	57-48-7	Not Listed
Er	vironment		
	U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
	•L-Ascorbic acid	50-81-7	Not Listed
	•Maltodextrin	9050-36-6	Not Listed
	•D-Fructose U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities	57-48-7	Not Listed
	•L-Ascorbic acid	50-81-7	Not Listed
	•Maltodextrin	9050-36-6	Not Listed
	•D-Fructose	57-48-7	Not Listed
	U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities		
	•L-Ascorbic acid	50-81-7	Not Listed
	•Maltodextrin	9050-36-6	Not Listed
	•D-Fructose	57-48-7	Not Listed
	U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs •L-Ascorbic acid	50-81-7	Not Listed
	•Maltodextrin	9050-36-6	Not Listed
	•D-Fructose	57-48-7	Not Listed
	U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
	•L-Ascorbic acid	50-81-7	Not Listed
	•Maltodextrin	9050-36-6	Not Listed
	•D-Fructose	57-48-7	Not Listed
	U.S CERCLA/SARA - Section 313 - Emission Reporting  *L-Ascorbic acid	50-81-7	Not Listed
	•Maltodextrin	9050-36-6	Not Listed
	•D-Fructose	57-48-7	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
	•D-Fructose	57-48-7	Not Listed
U	nited States - California		
Er	vironment		
	U.S California - Proposition 65 - Carcinogens List		
	•L-Ascorbic acid	50-81-7	Not Listed
	•Maltodextrin	9050-36-6	Not Listed
	•D-Fructose	57-48-7	Not Listed
	U.S California - Proposition 65 - Developmental Toxicity	F0 04 7	Nat Lista d
	-L-Ascorbic acid -Maltodextrin	50-81-7 9050-36-6	Not Listed Not Listed
	•D-Fructose	57-48-7	Not Listed
	U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)	00 .	. 101 = 0100
	•L-Ascorbic acid	50-81-7	Not Listed
	•Maltodextrin	9050-36-6	Not Listed
	•D-Fructose	57-48-7	Not Listed
	U.S California - Proposition 65 - No Significant Risk Levels (NSRL)  *L-Ascorbic acid	50-81-7	Not Listed
	•Maltodextrin	9050-36-6	Not Listed
	•D-Fructose	57-48-7	Not Listed
	U.S California - Proposition 65 - Reproductive Toxicity - Female		
	•L-Ascorbic acid	50-81-7	Not Listed
	•Maltodextrin	9050-36-6	Not Listed
	•D-Fructose	57-48-7	Not Listed
	U.S California - Proposition 65 - Reproductive Toxicity - Male  •L-Ascorbic acid	50-81-7	Not Listed
	L /1000IDIO GOIG	30-01-7	NOT LISTER

•Maltodextrin 9050-36-6 Not Listed •D-Fructose 57-48-7 Not Listed

## 15.2 Chemical Safety Assessment

• No Chemical Safety Assessment has been carried out.

#### Section 16 - Other Information

#### **Last Revision Date**

• 12/January/2015

# **Preparation Date**

• 12/January/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/January/2015

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