



Safety Data Sheet

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

1.1 Product identifier

Product Name • DeRoyal Solidifier

CAS Number • 9003-04-7

Product Number • 71-0500; 71-1000; 71-1200; 71-1500; 71-1500N; 71-18000; 71-2005; 71-3000; 71-3000N; 71-9000; V71-0500; V71-1000; V71-1200; V71-1500; V-71-18000; V71-2005; V71-3000; V71-9000

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

Relevant identified use(s) • Used to solidify medical waste

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

• 800-424-9300 - CHEMTREC

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 statements • No label element(s) required

DSD/DPD

Risk phrases • No label element(s) required

2.3 Other Hazards

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

DSD/DPD • This product is not considered dangerous under the European Directive 67/548/EEC

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 considered not 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 statements • No label element(s) required

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

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Sodium polyacrylate	CAS: 9003-04-7	100%	NDA	UN GHS: Not Classified EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA

3.2 Mixtures

- Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

Section 4 - First Aid Measures

4.1 Description of first aid measures

- Inhalation** • Move victim to fresh air. Seek medical attention if symptoms persist.
- Skin** • In case of contact with substance, immediately flush skin with running water for at least 20 minutes.
- Eye** • In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Remove contact lenses. Seek medical attention if symptoms persist.
- Ingestion** • Non-toxic by ingestion; if adverse symptoms appear, seek medical attention. Remove as much as possible from the mouth; if conscious, induce vomiting and rinse mouth thoroughly with plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

- No known symptoms to date.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to Physician** • Treat symptomatically.

Section 5 - Firefighting Measures

5.1 Extinguishing media

- Suitable Extinguishing Media** • LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.
- Unsuitable Extinguishing Media** • Full water jet

5.2 Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards** • Extremely slippery conditions are created if spilled product comes in contact with water.
- Hazardous Combustion Products** • Carbon Dioxide, Carbon Monoxide

5.3 Advice for firefighters

- Firefighters should wear full protective clothing, including self-contained breathing apparatus. Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal Precautions** • Ventilate enclosed areas. Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE).
- Emergency Procedures** • Avoid contact with water. Slippery conditions will result.

6.2 Environmental precautions

- Avoid run-off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

- Containment/Clean-up Measures** • Avoid generating dust.
SMALL DRY SPILLS: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.
LARGE SPILLS: Cover powder spill with plastic sheet or tarp to minimize spreading. Avoid adding water, the product will become slippery when wet.

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** • Use good safety and industrial hygiene practices. Use only with adequate ventilation. Avoid breathing dust. Minimize dust generation and accumulation. Wash thoroughly with soap and water after handling.

7.2 Conditions for safe storage, including any incompatibilities

- Storage** • Store in a cool, dry place. Store in a tightly closed container.

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

- Engineering Measures/Controls** • Good general ventilation should be used.

Personal Protective Equipment

- Respiratory** • None required.
- Eye/Face** • Wear safety goggles.
- 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 granular powder
Color	White	Odor	None
Odor Threshold	No data available		
General Properties			
Boiling Point	N/A	Melting Point	>390°F
Decomposition Temperature	No data available	pH	Approx. 6 (in a 1.0g/L in 0.9% NaCl-solution)
Specific Gravity/Relative Density	0.3 – 0.5 g/ml	Water Solubility	Insoluble in water
Viscosity	N/A	Explosive Properties	No data available
Oxidizing Properties:	No data available		
Volatility			
Vapor Pressure	< 10 mmHg (<10hPa)	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	N/A	UEL	Not measured
LEL	Not measured	Autoignition (°C)	Not measured
Flammability	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 under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization not indicated.

10.4 Conditions to avoid

- Protect from moisture. Keep away from heat and ignition sources. Temperatures > 200°C.

10.5 Incompatible materials

- None known.

10.6 Hazardous decomposition products

- None with proper storage and handling.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

GHS Properties	Classification
Acute toxicity	EU/CLP •Acute Toxicity - Dermal - No data available; Acute Toxicity - Inhalation - No data available; Acute Toxicity - Oral – No data available OSHA HCS 2012 •Acute Toxicity - Dermal - No data available; Acute Toxicity - Inhalation - No data available; Acute Toxicity - Oral – No data available UN GHS •Acute Toxicity - Dermal - No data available; Acute Toxicity - Inhalation - No data available; Acute Toxicity - Oral – 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 •Classification criteria not met OSHA HCS 2012 •Classification criteria not met UN GHS •Classification criteria not met
Skin corrosion/Irritation	EU/CLP •Classification criteria not met OSHA HCS 2012 •Classification criteria not met UN GHS •Classification criteria not met
Skin sensitization	EU/CLP •Classification criteria not met OSHA HCS 2012 •Classification criteria not met UN GHS •Classification criteria not met
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 •Classification criteria not met OSHA HCS 2012 •Classification criteria not met UN GHS •Classification criteria not met
Respiratory sensitization	EU/CLP •No data available OSHA HCS 2012 •No data available UN GHS •No data available
Serious eye damage/Irritation	EU/CLP •Classification criteria not met OSHA HCS 2012 •Classification criteria not met UN GHS •Classification criteria not met

Potential Health Effects

Inhalation

Acute (Immediate)

- Exposure to dust may cause irritation.

Chronic (Delayed)

- No data available

Skin

- Acute (Immediate)** • Exposure to dust may cause irritation.
- Chronic (Delayed)** • No data available.
- Eye**
- Acute (Immediate)** • Exposure to dust may cause irritation.
- Chronic (Delayed)** • No data available.
- Ingestion**
- Acute (Immediate)** • Excessive concentrations of nuisance dust in the workplace may cause irritation to mucous membranes.
- 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

- Immobile in landfills and soil systems (> 90% retention)

12.5 Results of PBT and vPvB assessment

- No data available

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** • 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
2-Propenoic acid, homopolymer, sodium salt	9003-04-7	No	No	No	No	No

Canada

Labor

Canada - WHMIS - Classifications of Substances

•Sodium polyacrylate

9003-04-7 Not Listed

Canada - WHMIS - Ingredient Disclosure List

•Sodium polyacrylate

9003-04-7 Not Listed

Environment

Canada - CEPA - Priority Substances List

•Sodium polyacrylate

9003-04-7 Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

•Sodium polyacrylate

9003-04-7 Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

•Sodium polyacrylate

9003-04-7 Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

•Sodium polyacrylate

9003-04-7 Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

•Sodium polyacrylate

9003-04-7 Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

•Sodium polyacrylate

9003-04-7 Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

•Sodium polyacrylate

9003-04-7 Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

•Sodium polyacrylate

9003-04-7 Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

•Sodium polyacrylate

9003-04-7 Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

•Sodium polyacrylate

9003-04-7 Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

•Sodium polyacrylate U.S. - California - Proposition 65 - Developmental Toxicity	9003-04-7	Not Listed
•Sodium polyacrylate U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)	9003-04-7	Not Listed
•Sodium polyacrylate U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)	9003-04-7	Not Listed
•Sodium polyacrylate U.S. - California - Proposition 65 - Reproductive Toxicity - Female	9003-04-7	Not Listed
•Sodium polyacrylate U.S. - California - Proposition 65 - Reproductive Toxicity - Male	9003-04-7	Not Listed
•Sodium polyacrylate	9003-04-7	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Last Revision Date	• 23/March/2020
Preparation Date	• 30/October/2014
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

N/A = Not applicable