

Vanderbilt Minerals, LLC

# **SAFETY DATA SHEET**

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GHS United States

#### Section 1. Product and company identification **Product name** In case of emergency **DARVAN® 7-N** 1-203-295-2140 14395 Code Chemtrec: 1-800-424-9300 Supplier/Manufacturer Vanderbilt Minerals, LLC Outside US: 33 Winfield Street +1-703-527-3887 Norwalk, CT 06855 Synonym Sodium polymethacrylate and water **Material uses** Dispersing agent.

Product type Liquid.

### Section 2. Hazards identification

OSHA/HCS status	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.		
Classification of the	Not classified.		
substance or mixture			
GHS label elements			
Signal word	No signal word.		
Hazard statements	No known significant effects or critical hazards.		
Precautionary statements			
Prevention	Not applicable.		
Response	Not applicable.		
Storage	Not applicable.		
Disposal	Not applicable.		
Hazards not otherwise classified	None known.		

### Section 3. Composition/information on ingredients

Substance/mixture

Mixture

Ingredient name	CAS number	% by weight
water	7732-18-5	74 - 76
sodium polymethacrylate	54193-36-1	24 - 26

Occupational exposure limits, if available, are listed in Section 8.

Validation date :

### Section 4. First aid measures

#### **Description of necessary first aid measures** Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position Ingestion comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
<u> Over-exposure signs/s</u>	symptoms
Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides

Validation date : 10/2/2017 Date of previo

### Section 5. Fire-fighting measures

Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Remark	When water has evaporated, the residue will burn. Containers may explode (due to build-up of pressure) when exposed to extreme heat.

### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures				
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.			
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".			
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).			
Methods and materials for con	ntainment and cleaning up			
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal container.			
Large spill	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.			

### Section 7. Handling and storage

Precautions for safe handling	
Protective measures	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store between the following temperatures: 5 to 38°C (41 to 100.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

 Validation date
 : 10/2/2017
 Date of previous issue
 : 4/5/2016
 3/10

### Section 7. Handling and storage

## Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

None.

Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.			
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.			
Individual protection measure	es			
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.			
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: splash goggles			
Skin protection				
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.			
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat			
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.			
Respiratory protection	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.			
Personal protective equipment (Pictograms)				

### Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	Liquid.
Color	Colorless.
Odor	None.
Odor threshold	Not available.
рН	9 to 11.5
Melting point	Not available.
Boiling point	>100°C (>212°F)
Flash point	Closed cup: >93°C (>199.4°F) [Pensky-Martens.]
Burning time	Not applicable.
Burning rate	Not applicable.
Evaporation rate	<1 (butyl acetate = 1)
Flammability (solid, gas)	When water has evaporated, the residue will burn. Containers may explode (due to build-up of pressure) when exposed to extreme heat.
Lower and upper explosive (flammable) limits	Not available.
Vapor pressure	Not available.
Vapor density	>1 [Air = 1]
Density	1.13 to 1.17 g/cm <sup>3</sup>
Relative density	1.13 to 1.17
Solubility	Soluble in the following materials: cold water.
Solubility in water	Not available.
Partition coefficient: n- octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
SADT	Not available.
Viscosity	Dynamic (room temperature): <75 mPa⋅s (<75 cP)
Aerosol product	

## Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Avoid excessive temperatures.
Incompatible materials	oxidizing agents
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
DARVAN® 7-N	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg >20000 mg/kg	-

#### Irritation/Corrosion

Not available.

#### **Conclusion/Summary**

Skin	May cause skin irritation.	(Primary skin irritation index (rabbits): 0.25)
Eyes	Non-irritating to the eyes.	(Rabbit)

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

## Information on the likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects	
Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
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### Section 11. Toxicological information

#### Symptoms related to the physical, chemical and toxicological characteristics Eye contact No specific data. Inhalation No specific data. Skin contact No specific data. Ingestion No specific data. Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure **Potential immediate** Not available. effects Potential delayed effects Not available. Long term exposure **Potential immediate** Not available. effects **Potential delayed effects** Not available. Potential chronic health effects Not available. General No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. **Mutagenicity** No known significant effects or critical hazards. **Teratogenicity** No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. **Fertility effects** No known significant effects or critical hazards. Numerical measures of toxicity Acute toxicity estimates

Not available.

**Other information** 

Not available.

## Section 12. Ecological information

#### **Toxicity**

Not available.

### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Not available.

### Mobility in soil

Validation date

10/2/2017 Date of previous issue :

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### Section 12. Ecological information

Soil/water partition coefficient (Koc)

Not available.

Other adverse effects

No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG\* : Packing group

### Section 15. Regulatory information

United States inventory (TSCA 8b)

All components are listed or exempted.

#### U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: All components are listed or exempted.

#### SARA 302/304

#### Composition/information on ingredients

No products were found.

#### SARA 304 RQ Not applicable.

Validation date : 10/2/2017 Date of previous issue : 4/5/2016

### Section 15. Regulatory information

#### SARA 311/312 Classification

Not applicable.

Composition/information on ingredients

No products were found.

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Australia inventory (AICS)	All components are listed or exempted.
Canada inventory	All components are listed or exempted.
China inventory (IECSC)	All components are listed or exempted.
Europe inventory	All components are listed or exempted.
Japan inventory (ENCS)	All components are listed or exempted.
Korea inventory (KECI)	All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC)	All components are listed or exempted.
Philippines inventory (PICCS)	All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI)	All components are listed or exempted.

### Section 16. Other information

Hazardous Material Identifica	ation System (U.S.A.)	Health	1
		Flammability	1
		Physical hazards	0
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The customer is responsible	le for determining th	e PPE code for this material.	
National Fire Protection Asso	ociation (U.S.A.)	Health Flammability Health Special	eactivity
<u>History</u>			
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Date of previous issue : 4/5/2016

### Section 16. Other information

Key to abbreviations	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	Not available.
Information contact	Vanderbilt Global Services, LLC Corporate Risk Management
	1-203-295-2143

Visit www.vanderbiltminerals.com for more information.

#### Notice to reader

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