



## Safety Data Sheet

**Material Name: Flexible DASH Dual Cartridge Part B**

**Product # 326735**

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name:** Flexible DASH Dual Cartridge Part B

**Synonyms:** Polyol Blend

**Chemical Family:** Polyol Blend

**Product Use:** Commercial Roofing Adhesive

**Restrictions on Use:** Professional use only

**Manufacturer Information**

Versico  
1285 Ritner Highway  
Carlisle, PA 17013  
USA  
Phone: +1-800-992-7663  
Emergency Phone #: +1-800-424-9300 (CHEMTREC)

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### Section 2 - HAZARDS IDENTIFICATION

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**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

None needed according to classification criteria

**GHS Label Elements**

**Symbol(s)**

None needed according to classification criteria

**Signal Word**

None needed according to classification criteria

**Hazard Statement(s)**

None needed according to classification criteria

**Precautionary Statement(s)**

**Prevention**

None needed according to classification criteria

**Response**

None needed according to classification criteria

**Storage**

None needed according to classification criteria

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations

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### Other Hazards

No additional information available.

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### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
25265-71-8	Dipropylene glycol	5-10
13674-84-5	2-Propanol, 1-chloro-, phosphate (3:1)	10-20
280-57-9	1,4-Diazabicyclo[2.2.2]octane	0.1-1
108-01-0	2-(Dimethylamino)ethanol	0.1-1

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### Section 4 - FIRST AID MEASURES

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#### Description of Necessary Measures

IF exposed or concerned: Get medical advice/attention.

#### Inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

#### Skin

Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention.

#### Eyes

Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

#### Ingestion

Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Treat symptomatically and supportively.

#### Most Important Symptoms/Effects

##### Acute

No information on significant adverse effects.

##### Delayed

No information on significant adverse effects.

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**Section 5 - FIRE FIGHTING MEASURES**

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**Extinguishing Media**

**Suitable Extinguishing Media**

regular dry chemical, carbon dioxide, water, regular foam

**Unsuitable Extinguishing Media**

None known.

**Special Hazards Arising from the Chemical**

Closed containers may rupture violently when heated.

**Hazardous Combustion Products**

Oxides of carbon, oxides of phosphorus, hydrogen halides

**Special Protective Equipment and Precautions for Firefighters**

Wear self-contained breathing apparatus with a full facepiece and protective clothing.

**Fire Fighting Measures**

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out.

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**Section 6 - ACCIDENTAL RELEASE MEASURES**

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**Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8.

**Methods and Materials for Containment and Cleaning Up**

Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Stop leak if possible without personal risk. Small spills: Absorb with earth, sand or other non-combustible material and transfer to container. Large spills: Dike for later disposal. Eliminate all sources of ignition. Do not flush into sanitary sewer systems, drains or surface water.

**Environmental Precautions**

Avoid release to the environment.

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**Section 7 - HANDLING AND STORAGE**

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**Precautions for Safe Handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Use only in well ventilated areas. Wear protective gloves/clothing and eye/face protection. Wash contaminated clothing before reuse.

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**Conditions for Safe Storage, Including any Incompatibilities**

None needed according to classification criteria

Store between 65°F-85°F (18°C-30°C). Store in a dry place. Keep away from incompatible materials.

**Incompatible Materials**

Strong oxidizing materials, isocyanates, strong acids, strong bases

### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Component Exposure Limits**

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

**Biological limit value**

There are no biological limit values for any of this product's components.

**Engineering Controls**

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection**

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin Protection**

Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Thoroughly clean and dry contaminated clothing and shoes before reuse.

**Respiratory Protection**

In case of inadequate ventilation wear respiratory protection.

**Glove Recommendations**

Wear appropriate chemical resistant gloves.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	blue liquid	<b>Physical State</b>	liquid
<b>Odor</b>	musty, amine	<b>Color</b>	blue
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	>100 °C
<b>Freezing point</b>	Not available	<b>Evaporation Rate</b>	slower than ether
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Not available



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<b>Autoignition</b>	Not available	<b>Flash Point</b>	>201 °F [(CC)]
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air=1)</b>	>1	<b>Specific Gravity (water=1)</b>	1.1058
<b>Water Solubility</b>	soluble	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	250 cps	<b>Solubility (Other)</b>	Not available
<b>Density</b>	9.23 lb/gal at @ 25°C	<b>Physical Form</b>	liquid
<b>VOC</b>	0 g/l		

**Other Information**

No additional information available.

**Section 10 - STABILITY AND REACTIVITY**

**Reactivity**

No reactivity hazard is expected.

**Chemical Stability**

Stable at normal temperatures and pressure.

**Possibility of Hazardous Reactions**

Hazardous polymerization will not occur.

**Conditions to Avoid**

Prolonged heating above 160°C or storage below 5°C. Avoid heat, flames, sparks and other sources of ignition.

**Incompatible Materials**

Strong acids, strong bases, strong oxidizing materials, isocyanates

**Hazardous decomposition products**

Oxides of hydrogen, oxides of phosphorus, hydrogen halides

**Section 11 - TOXICOLOGICAL INFORMATION**

**Information on Likely Routes of Exposure**

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### **Inhalation**

Vapor or mist may cause respiratory tract irritation.

### **Skin Contact**

May cause mild skin irritation.

### **Eye Contact**

May cause mild eye irritation.

### **Ingestion**

May cause gastrointestinal disturbances, nausea, vomiting, and diarrhea.

### **Acute and Chronic Toxicity**

#### **Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Dipropylene glycol (25265-71-8)

Oral LD50 Rat 14800 mg/kg

Dermal LD50 Rabbit >5000 mg/kg

2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

Oral LD50 Rat 630 mg/kg

Dermal LD50 Rabbit >2000 mg/kg

Inhalation LC50 Rat >7 mg/L 4 h

1,4-Diazabicyclo[2.2.2]octane (280-57-9)

Oral LD50 Rat 1700 mg/kg

Dermal LD50 Rabbit 3200 mg/kg

2-(Dimethylamino)ethanol (108-01-0)

Oral LD50 Rat 1803 mg/kg

Dermal LD50 Rabbit 1220 mg/kg

Inhalation LC50 Rat 1641 ppm 4 h

Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

### **Immediate Effects**

No information on significant adverse effects.

### **Delayed Effects**

No information on significant adverse effects.

### **Irritation/Corrosivity Data**

May cause respiratory tract irritation, skin irritation, and eye irritation.

### **Respiratory Sensitization**

No information available for the product.

### **Dermal Sensitization**

No information available for the product.

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**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

**Germ Cell Mutagenicity**

No information available for the product.

**Reproductive Toxicity**

No information available for the product.

**Specific Target Organ Toxicity - Single Exposure**

No target organs identified.

**Specific Target Organ Toxicity - Repeated Exposure**

No target organs identified.

**Aspiration hazard**

No information available for the product.

**Medical Conditions Aggravated by Exposure**

None reported.

**Additional Data**

No additional information available.

### Section 12 - ECOLOGICAL INFORMATION

**Ecotoxicity**

Avoid release to the environment.

**Component Analysis - Aquatic Toxicity**

<b>2-Propanol, 1-chloro-, phosphate (3:1)</b>	13674-84-5
Fish:	LC50 96 h Brachydanio rerio 56.2 mg/L [static]; LC50 96 h Pimephales promelas 98 mg/L [static]; LC50 96 h Poecilia reticulata 30 mg/L [static]
Algae:	EC50 72 h Desmodesmus subspicatus 45 mg/L IUCLID; EC50 96 h Pseudokirchneriella subcapitata 4 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 63 mg/L IUCLID
<b>1,4-Diazabicyclo[2.2.2]octane</b>	280-57-9
Fish:	LC50 96 h Pimephales promelas 1510 - 1980 mg/L [flow-through]

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<b>2-(Dimethylamino)ethanol</b>	108-01-0
Fish:	LC50 96 h Pimephales promelas 81 mg/L [static]
Algae:	EC50 72 h Desmodesmus subspicatus 35 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 98.77 mg/L IUCLID

**Persistence and Degradability**

No information available for the product.

**Bioaccumulative Potential**

No information available for the product.

**Mobility**

No information available for the product.

**Bioconcentration**

No information available for the product.

**Other Toxicity**

No additional information available.

**Section 13 - DISPOSAL CONSIDERATIONS**

**Disposal Methods**

Dispose in accordance with all applicable regulations.

**Section 14 - TRANSPORT INFORMATION**

**US DOT Information:**

UN/NA #: Not regulated.

**IATA Information:**

No Classification assigned.

**TDG Information:**

UN#: Not regulated.

**Section 15 - REGULATORY INFORMATION**

**U.S. Federal Regulations**



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None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

**SARA Section 311/312 (40 CFR 370 Subparts B and C)**

**Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No Reactivity: No**

### U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Dipropylene glycol	25265-71-8	No	No	No	No	Yes
2-(Dimethylamino)ethanol	108-01-0	No	Yes	No	Yes	Yes

### Not listed under California Proposition 65

### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

1,4-Diazabicyclo[2.2.2]octane	280-57-9
	1 %

### WHMIS Classification

D2A, D2B.

### Component Analysis - Inventory

Oxirane, methyl-, polymer with oxirane (9003-11-6)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

Dipropylene glycol (25265-71-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

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Siloxanes and Silicones, dimethyl, 3-hydroxypropyl methyl, ethoxylated propoxylated (68937-55-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

Oxirane, methyl-, polymer with oxirane, mono-2-propenyl ether (9041-33-2)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

1,4-Diazabicyclo[2.2.2]octane (280-57-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

2-(Dimethylamino)ethanol (108-01-0)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Water (7732-18-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes

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### Section 16 - OTHER INFORMATION

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#### NFPA Ratings

Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### Summary of Changes

New 6/20/2016

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### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

### Other Information

#### Disclaimer:

The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.