



Product SDS

Reference date: 3-7-2016 Revision date:

01. Identification of the substance/mixture and of the company

Product name: ValveSafe™

Code number(s): VS-002 BLU

Purpose of product: Single-use valve cage for the safe storage of endoscope valves and to ensure that they remain as part of a unique set with the parent endoscope, as recommended by a number of national and international guidelines.

Manufacturer/supplier: Healthmark Industries Co.

Address: 33671 Doreka Drive / Fraser, MI 48026

Telephone/Fax/Email: (800) 521-6224 / (586) 491-2113 / healthmark@hmark.com

Emergency telephone number: (800) 424-9300 (24 hour service)

02. Hazards identifications

Classification of the substance or mixture: N/A

Adverse environmental and human health effects: N/A

03. Composition/information on ingredients

Description of the mixture: HMA 018 Injection Molding Resin. HMA 018 is an easy flow HDPE grade, characterized by high gloss and dimensional stability.

Additive Package	Thermal Stabilizer		
HMA 018	Yes		
Resin Properties	Test Based On	Typical Value / Unit	
Melt Index	ASTM D 1238	30 g/10 min	
Density	ASTM D 4703 / D 1505	0.954 g/cm ³	
Peak Melting Temperature	ExxonMobil Method	129 °C	264 °F
Molded Properties			
Flexural Modulus (0.05 – 0.25 %)	ISO 178	900 MPa	130500 psi
Tensile Strength at Yield	ISO 527-2/1A/50	22 MPa	3200 psi
Elongation at Break	ISO 527-2/1A/50	> 100 %	
Elongation at Yield	ISO 527-2/1A/50	10 %	
IZOD Impact	ISO 180-1A	4 KJ/m ²	1.9 ft-lb/in ²
Temperature of Deflection Under Load ¹	ISO 75-Be	67 °C	153 °F
Environmental Stress Crack Resistance ²	ASTM D 1693	< 1 hrs	

The molded properties were measured on 4 mm (157.5 mil) thick injection molded specimen based on ISO 1872-2.

- 0.45 MPa, 70 psi
- ESCR was measured on 2 mm (78.7 mil) thick compression molded plate (F50, 10 % Igepal, 50 °C, 122 °F)

Hazardous ingredients: N/A

04. First aid measures

General information: N/A

Following inhalation: N/A

Following skin contact: N/A

Following eye contact: N/A

Following ingestion: N/A

Notes for the doctor: N/A

05. Firefighting measures

Suitable extinguishing media: N/A

Unsuitable extinguishing media: N/A

Special hazards arising from the substance and combustion products: N/A

Advice for firefighters: N/A

06. Accidental release measures

General information: N/A

Environmental precautions: N/A

Additional information: N/A

07. Handling and storage

Precautions for safe handling: N/A

Fire Preventions: N/A

Technical measures and storage conditions: N/A

08. Exposure controls/personal protection

Control parameters: N/A

Personal protective equipment: N/A

Hand protection: N/A

Respiratory protection: N/A

Eye protection: N/A

Advice on general occupational hygiene: N/A

Environmental exposure controls: N/A

09. Physical and chemical properties

Appearance: N/A

Physical state: N/A

Color: N/A

Odor: N/A

Safety relevant basic data: N/A

Explosion hazard: N/A

Density: N/A

pH: N/A

Initial boiling point/range: °C /°F

Solubility: N/A

Flash point: °C /°F

Ignition temperature: °C /°F

Melting point: °C / °F

Conditions to avoid: N/A

Incompatible materials: N/A

10. Stability and reactivity

Conditions to avoid: N/A

Incompatible materials: N/A

Hazardous decomposition products: N/A

11. Toxicological information

Information on toxicological effects: N/A

Irritation: N/A

Sensitization: N/A

Inhalation: N/A

Practical experiences: N/A

Ingredient: N/A

12. Ecological information

Terrestrial toxicity: N/A

Aquatic toxicity: N/A

Mobility: N/A

Persistence and degradability: N/A

Bio accumulative potential: N/A

Results of PBT and vPvB assessment: N/A

Other adverse effects: N/A

13. Disposal considerations

Product: Please refer to applicable local, state, and federal regulations.

Contaminated packaging: N/A

Uncontaminated packaging: N/A

14. Transport information

UN-No:

Proper shipping name:

Classification code:

Packing group:

Hazard label:

15. Regulatory information

Material safety evaluation:

Regulation on combustible liquids:

Class according 2009/104/EG (BetrSichV):

Water hazard class:

Storage according TRGS 510 (Storage of hazardous substances in non-stationary containers):

16. Other information

Recommended application:

Relevant R-, H-, and EUH-phrases:

The information supplied in this Safety Data Sheet is designed only as a guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and beliefs at the date of the publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other processes.

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