

MATERIAL SAFETY DATA SHEET**QUICK IDENTIFIER (In Plant Common Name)**

VaporBlock Plus 20 VBP20

Manufacturer's Name RAVEN INDUSTRIES INC.
Address P.O. Box 5107
 Sioux Falls, SD 57117

Emergency Telephone Numbers 800-635-3456
 605-335-0174
Other Information 1813 "E" Avenue
 Sioux Falls, SD 57104

Signature of Person Responsible for Preparation 

Date Prepared February 25, 2008

Section 1 - IDENTITY

Common Name: (Used on Label) VBP20
(Trade Name & Synonyms) VBP20
Chemical Name Ethylene Vinyl Alcohol Copolymer
 Copolymer of Ethylene and Octene-1
Formula (CH₂ - CH₂)_n

CAS Number(s) 26221-73-8 13463-67-7 12001-26-2
 26221-27-2 9002-88-4 1317-63-3
Chemical Family Polyolefin EVOH

Section 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) - Chemical and Common Name	%	Threshold Limit Value (units)
None		

Section 3 - PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

Boiling Point	Not Applicable (N/A)		Specific Gravity	0.93	Vapor Pressure, mmHg	N/A
Percent Volatile by Volume (%)	0	Vapor Density	N/A	Evaporation Rate	N/A	
Solubility in Water	Insoluble in Water			Reactivity in Water	Not Reactive in Water	
Appearance and Odor	White/Gold, odorless plastic film.					
Flash Point	N/A	Flammability Limits in Air, by Volume (%)	Lower N/A	Upper N/A	Auto Ignition Temperature	> 650 F (estimated)
Extinguisher Media	Use water spray, dry chemical, foam or carbon dioxide					
Special Fire Fighting Proced.	Fire fighters should wear a self-contained breathing apparatus when there is a possibility of exposure to smoke, fumes or hazardous decomposition products. If possible, water should be applied as a spray from a fogging nozzle since this material is a surface burning material.					
Unusual Fire and Explosion Hazards	None					

Section 4 - PHYSICAL HAZARDS

Stability	Unstable	Conditions to Avoid	Temperatures over 560 F will release combustible gases.
	Stable		
Incompatibility (Materials to Avoid)	None		
Hazardous Decomposition Products	The following combustion products may be generated: Carbon dioxide, carbon monoxide, water vapor, and trace volatile organic compounds.		
Hazardous Polymerization	May Occur	Conditions to Avoid	N/A
	Will not Occur		

Section 5 - HEALTH HAZARDS

Threshold	N/A					
Limit Value						
Signs and Symptoms of Exposure						
1. Acute Overexposure	Not Determined			2. Chronic Overexposure	Not Determined	
Medical Conditions Generally Aggravated by Exposure	There are no known medical conditions aggravated by exposure to this product.					
Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Not Listed	L.A.R.C. Monographs	Not Listed	OSHA	Not Listed
OSHA Permissible Exposure Limit	None	ACGIH Threshold Limit Value	None	Other Expos. Limit Used	None	
Emergency and First Aid Procedures	Most problems will result from exposure to molten materials.					
1. Inhalation	Immediately remove victim from area to fresh air. Seek medical attention.					
2. Eyes	If contacted by molten material, immediately flush eyes with plenty of cool water for at least 15 minutes. Do not permit victim to rub eyes. Immediately seek medical attention.					
3. Skin	If contact by molten material, cool immediately with cool water. Do not attempt to remove any solidified material. Immediately seek medical attention.					
4. Ingestion	If material is ingested, contact a physician or Poison Control Center as appropriate whenever any foreign object is swallowed.					

Section 6 - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type)						
N/A						
Ventilation	Local Exhaust	Mechanical (General)			Special	Other
N/A	N/A	N/A			N/A	N/A
Protective Gloves	Wear protective gloves during thermal processing.		Eye Protection	Wear eye protection during thermal processing.		
Other Protective Clothing or Equipment	Wear protective sleeves when processing material at elevated temperatures to minimize the possibility of thermal burns.					

Section 7 - SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES

Precautions to be Taken in Handling and Storage	This product should be stored in a manner that it is not exposed to heat and sources of ignition. A static charge may be present on finished products.					
Other Precautions	None					
Steps to be Taken in Case Material is Released or Spilled						
Spilled material should be swept up and discarded. Comply with applicable federal, state or local regulations.						
Waste Disposal Methods						
Dispose in accordance with local regulations						

IMPORTANT - Do not leave blank spaces. If information is unavailable, unknown or does not apply, so indicate