


MATERIAL SAFETY DATA SHEET

QUICK IDENTIFIER (In Plant Common Name)

Dura-Skrim 2FR &10FR R5CCF-R10CCF

Manufacturer's Name	RAVEN INDUSTRIES INC.	Emergency Telephone Numbers	800-635-3456 605-335-0174
Address	P.O. Box 5107 Sioux Falls, SD 57117	Other Information	1813 "E" Avenue Sioux Falls, SD 57104
Signature of Person Responsible for Preparation		Date Prepared	June 1, 2006

Section 1 - IDENTITY

Common Name: (Used on Label)	Dura-Skrim 2FR (R5CCF)	CAS	26221-73-8 32588-76-4 25213-02-9
(Trade Name & Synonyms)	Dura-Skrim 10FR (R10CCF)	Number(s)	25038-59-9 1309-64-4
Chemical Name	copolymer of Ethylene and Octene-1 film Polyester fiber	Chemical Family	Polyolefin Polyester
Formula	(CH2 - CH2) n		

Section 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) - Chemical and Common Na	%	Threshold Limit Value (units)
1,2-bis(Tetraboromophthalimido	<4.8	PEL (mg/m3) = 15 TWA (mg/m3) = 15
Antimony Trioxide	<3.0	PEL (mg/m3) = 0.5 TWA (mg/m3) = 0.5

** This information provided is for the flame retardant concentrate as a component of the finished product. The above component are encapsulated in the film and pose no significant threat to human health or the environment.

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

Boiling Point	Not Applicable (N/A)			Specific Gravity	0.95	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	Translucent yellow, odorless reinforced plastic film.						
Flash Point	N/A	Flammability Limits in Air, by Volume (%)	Lower	Upper	Auto Ignition Temperature	> 660 F (estimated based upon raw material AIT)	
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 Known						

Section 4 - PHYSICAL HAZARDS

Stability	Unstable	Conditions to Avoid	Temperatures over 570°F may release combustible gases.
	Stable		X
Incompatibility (Materials to Avoid)	Strong Oxidizing agents		
Hazardous Decomposition Products	The following combustion products may be generated: Carbon dioxide, carbon monoxide, water vapor, ketones, and trace volatile organic compounds.		
Hazardous Polymerization	May Occur	Conditions to Avoid	N/A
	Will not Occur		X

Section 5 - HEALTH HAZARDS**Threshold** N/A**Limit Value****Signs and Symptoms of Exposure**

1. Acute	Not Determined	2. Chronic	Not Determined
Overexposure		Overexposure	

Medical Conditions Generally There are no known medical conditions aggravated by exposure to this product.**Aggravated by Exposure**

Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Not Listed	L.A.R.C. Monographs	Not Listed	OSHA	Not Listed
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OSHA Permissible Exposure Limit	None	ACGIH Threshold Limit Value	None	Other Expos. Limit Used	None
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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.
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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 they are 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**