				QUICK IDENTIFIER (In Plant Common Name)			
MATERIAL SAFETY DATA SHEET			Rufco PP Series		PP20, PP30, PP40		
Manufacturer's			Emergency		800-635-3456		
Name	RAVEN I	NDUSTRIES INC.	Telephone No	umbers	605-335-0174		
Address	P.O. Box Sioux Fal	5107 ls, SD 57117	Other Information	1812 "E" Avenue Sioux Falls, SD 57104			
Signature of Pers Responsible for F		Oan Smith	Date Prepared		June 1, 2006		
Section 1 - IDEN	TITY						
Common Name: (Used	d on Label)	Rufco PP20,PP30,PP40	CAS	n/a			
(Trade Name &Synd	onyms)		Number(s)				
Chemical Name Polyp	ropylene		Chemical Family	Polyolefi	nic Polymer/Stablizers		
Formula							
Section 2 - HAZ	ARDOUS	INGREDIENTS					
		nent(s) - Chemical and Commo	n Na %	The second section	d Limit Value (units)		

None

Boiling	Not Applicable (N/A)			Specific	0.88-1.20	Vapor ]	N/A
Point				Gravity		Pressure, mmHg	
Percent Volatile by Volume (%)	<0.5%	Vapor Density	N/A	Evaporation Rate	N/A	-	
Solubility in Water	Insoluable in water Reactivity Not reactive in water In Water					in water	
Appearance and Odor	Black plasti Slight waxy						
Flash	Not	Flammability Limits	Lower	Upper	Auto Ignition	Not determined	
Point	Determined	in Air, by Volume (%)	N/A	N/A	Temperature		
Extinguisher Media	Use water	spray, dry chemica	l, foam or ca	arbon dioxide			
Special Fire							
Fighting Proced.	Fire fighte	rs should wear a se	lf-contained	breathing appar	atus when the	re is a possibility of	
exposure to smok	e, fumes or h	azardous decompo	sition produ	ets. If possible,	water should l	pe applied as a spray	7
from a fogging no	ozzle since th	is material is a surf	ace burning	material.			
Unusual Fire and							
	Product will r						

Stability Unstable		<b>Conditions</b> Keep away from heat, sparks and flame.				
Stable	X	to Avoid				
Incompatability		Consult manufacturer for chemical compatibility before using as a containment or				
(Materials to Avoid)		barrier for chemicals other than water. Avoid Oxidizing materials.				
<b>Hazardous</b> The fo		The following c	The following combustion products may be generated: Carbon dioxide, carbon			
Decomposition Products		monoxide, water vapor, oxides of nitrogen, hydrocarbons, ketones, acrolein,				
		aldehydes, trace	volatile organ	ic compounds and unidentified organic compounds		
Hazardous May		May Occur		Conditions N/A		
Polymerization		Will not Occur	X	to Avoid		

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Section 5 - HEAI	TH HAZ	ARDS						
Threshold Limit Value	N/A							
Signs and Sympto	ms of Expo	osure						
1. Acute Not determined  Overexposure			2. Chronic Overexposure					
Medical Conditions Ge Aggravated by Exposu	•	There are no known	n medical co	onditions aggrav	ated by expos	sure to this pro	oduct.	
Chemical Listed as Car		National Toxicology	Not	L.A.R.C.	Not	OSHA	Not	
or Potential Carcinoge	n	Program	Listed	Monographs	Listed		Listed	
OSHA Permissible Exposure Limit	None	ACGIH Threshold Limit Value	None		Other Expos. Limit Used	None		
Emergency and First Aid Procedures	Most prol	blems will result from	exposure to	o molten materia	als.			
1. Inhalation	Immediat	ely remove victim fro	m area to fr	esh air. Seek me	edical attention	on.		
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, c	ool immedi	ately with cool v	vater. Do not		move	
4. Ingestion		al is ingested, contact a		or Poison Contro	ol Center as a	appropriate wh	nenever	
Section 6 - SPEC	IAL PRO	TECTION INFORM	IATION					
Respiratory Protect	ction							
(Specify Type)		Not required under	normal han	dling and ventila	ation conditio	ns		
Ventilation N/A	Local Exh N/A	aust	<i>Mechanical</i> N/A	(General)		Special N/A	Other N/A	
Protective Gloves	Wear pro	tective gloves during t	ng thermal <b>Eye</b> Wear eye protection during processing.		ng thermal			
Other Protective Clothing or Equip	•	Wear protective sle			1 0	•	es to	
		CAUTIONS AND SE			RES			
Precautions to be								
in Handling and S		This product should	d be stored i	n a manner that	they are not	exposed to hea	at and	
-	-	charge may be presen				1		
Other Precautions	None	<u> </u>		•				
Steps to be Taken in Co		Spilled material sho	ould be swe	pt up and discard	ded. Comply	with applicat	ole state,	
	•	d local regulations.			1.7		· · · · · · · · · · · · · · · · · · ·	
Waste Disposal Methods		n accordance with loca	al state and	federal regulation	ons			
	21spose ii		, state and					

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