PR-1776M B-2, Part A

Effective Date: 09/30/02

SECTION I - MANUFACTURER AND PRODUCT INFORMATION

PRC-DeSoto International, Inc.

A PPG Industries Company 5430 San Fernando Road

P.O. Box 1800

Glendale, CA 91209

Trade Name: PR-1776M B-2, Part A

Accelerator component

Product Code: FM5410C

Form ID No: X03

Product Class: Manganese dioxide dispersion

Synonyms: S-5410

HMIS HAZARD RATING

HEALTH - 1

Information Phone: (818) 240-2060

Emergency Phone: (800) 228-5635

Outside of USA: +(651) 632-9265

CHEMTREC:

FLAMMABILITY - 1 REACTIVITY - 0

(800) 424-9300

PPE - G

None (0) --->Extreme (4)

SECTION II - COMPOSITION

INGREDIENTS INFORMATION

WC 8	CHEMICAL IDENTITY
30 - 60	Manganese Dioxide
10 - 30	Hydrogenated Terphenyl
1 - 10	Talc
< 5	Terphenyls
< 5	Dipentamethylenethiuram tetrasulfide
	30 - 60 10 - 30 1 - 10 < 5

EXPOSURE LIMITS EXPOSURE LIMITS (ppm)

	ACGIH '	TLVs	OSHA 1	PELs	
CAS NUMBER	TWA	STEL	TWA	STEL	
001313-13-9	0.2 mg/m3	N/E	5	N/E	S
061788-32-7	0.5	N/E	0.5	N/E	S
014807-96-6	2 mg/m3	N/E	2 mg/m3	N/E	S
026140-60-3	0.5	N/E	0.5	N/E	S
000120-54-7	N/E	N/E	N/E	N/E	

Footnotes

- (S) Occupational Exposure Standard
- (R) Supplier's Recommended Limit

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PR-1776M B-2, Part A

FM5410C

Effective Date: 09/30/02

N/Av = Not Available

N.E. = Not Established

N/Ap = Not Applicable

NotknownXXX = CAS Number is not known.

SECTION III - HAZARDS IDENTIFICATION

Permissible Exposure Limits for Product:

Not established for product. See Section II.

ROUTE OF ENTRY AND EFFECTS OF OVEREXPOSURE

ROUTE OF ENTRY:

Inhalation and dermal.

INHALATION:

Vapor or fume will irritate the nose and throat.

EYE CONTACT:

Vapor or fume can irritate the eyes.

SKIN CONTACT:

Substance can cause moderate irritation.

INGESTION:

Ingestion can cause irritation of gastro-intestinal tract. Contains an ingredient listed as known or suspected carcinogen?

NTP: No OSHA: No IARC: No

SECTION IV - FIRST AID MEASURES

INHALATION:

If inhaled, remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, transport to medical facility and, if available, give supplemental oxygen.

EYE CONTACT:

For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention.

SKIN CONTACT:

For skin contact, wipe excess material with dry towel. Then wash exposed areas with plenty of water, and soap if available, for several minutes. Get medical attention if irritation occurs.

INGESTION:

If swallowed dilute by giving two(2) glasses of water to drink. Get

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MATERIAL SAFETY DATA SHEET PR-1776M B-2, Part A FM5410C Effective Date: 09/30/02 immediate medical attention. Never give anything by mouth to an unconscious person. GENERAL: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. ______ SECTION V - FIRE AND EXPLOSION HAZARD IDENTIFICATION FLASHPOINT: > 210 F Method: Setaflash LEL (%): UEL (%): N/Av N/Av FLAMMABILITY CLASSIFICATION: Not flammable. FIRE AND EXPLOSION HAZARDS: Decomposition and combustion products may be hazardous. No unusual hazards known. EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam, water fog. FIRE FIGHTING PROCEDURES: Use complete personal protection. Use water to cool heat exposed containers. SECTION VI - ACCIDENTAL RELEASE MEASURES STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Cover with absorbent material if necessary. Scoop into containers. Clean up residue with a suitable cleaning solvent. Wear appropriate personal protective equipment (See Section VIII). SECTION VII - HANDLING AND STORAGE PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container tightly closed. Store in a dry location. Wear proper personal protective equipment (See Section VIII). Wash thoroughly after handling and before smoking or eating.

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FM5410C Effective Date: 09/30/02

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Local and/or general ventilation as required to maintain hazardous ingredients below recommended (ACGIH-TLV) or regulated (OSHA-PEL) limits.

RESPIRATORY PROTECTION:

When spraying or applying in any circumstances likely to produce airborne levels of vapors in excess of the TLV or mists, use an organic vapor cartridge or air-supplied respirator.

EYE PROTECTION:

Safety glasses.

SKIN PROTECTION:

Chemically resistant gloves.

GENERAL:

Safety shower, eye wash station and washing facilities should be available. When using in circumstances where skin contact is likely, use complete protective garments.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black
Physical State: Paste
Low Boiling Point: N/Av
High Boiling Point: N/Av

High Boiling Point: N/Av
Evaporation Rate: Non-volatile
Vapor Density: Non-volatile

Vapor Density:
% Volatiles by Volume: 1
Specific Gravity: 1.65

Liquid Density: Heavier than water

Weight Per Gallon: 13.74

VOC (GR/L): N/App

VOC (GR/L, Combined): 74

	MATERIAL SAFETY DATA	A SHEET
PR-1776M B-2, Part	A	
FM5410C		Effective Date: 09/30/02
	SECTION X - STABILITY	AND REACTIVITY
/ New Adv. Case - pair Adv. Upon 1000 tors and and and any any and adv. Case - Case - Case - Case - Case - Cas		
TABILITY:		
Stable.		
MAZARDOUS POLYMERIZAT	'ION:	
Will not occur. INCOMPATABILITY:		
Easily oxidizable	materials.	
CONDITIONS TO AVOID:	. Macolialo.	
See incompatibili	ties above.	
HAZARDOUS DECOMPOSITI		
	and nitrogen, manganese co	
	SECTION XI - TOXICOLOG	ICAL INFORMATION
	ID INHALATION EFFECTS (LD5	
CAS NUMBER	LD50	LC50
001313-13-9	14900 mg/kg,oral,rat	N/AV.
01/88-32-7	14900 mg/kg,oral,rat 10000 mg/kg,oral,rat 5000 mg/kg,oral,rat	4./ mg/L, rat, 4nr.
026140-60-3	10000 mg/kg,oral,rat	4.7 mg/L.rat.4hr.
	2000 mg/kg,oral,rat	
		·
NOTICE: There are no data	a available on the product	itself.
	SECTION XII - ECOLOGIC	AL INFORMATION
NOTICE:		
There are no data	a available on the product	itself.

MATERIAL SAFETY DATA SHEET PR-1776M B-2, Part A FM5410C Effective Date: 09/30/02 SECTION XIII - DISPOSAL CONSIDERATIONS WASTE DISPOSAL METHOD: When disposing of this material, ensure that it is packaged, stored, transported, and otherwise handled in accordance with local, state, and federal regulations. SECTION XIV - TRANSPORT INFORMATION DOT (Non-Bulk): PROPER SHIPPING NAME: Not regulated HAZARD CLASS: Not Applicable UN NUMBER: Not Available SPECIAL NOTES: None SECTION XV - REGULATORY INFORMATION

TSCA Section 8(b) - Inventory Status:

All ingredients in this product are listed in the TSCA Inventory or are exempt from listing.

CANADIAN EPA - DSL Inventory Status:

The DSL status of this product is unknown at this time.

SARA Title III Section 313 - Toxic Chemical List (TCL):

This product contains a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372). This information must be included in all MSDS's copied or distributed for this product.

001313-13-9 Manganese Dioxide

SARA Title III Section 302 - CERCLA:

This product contains no chemical regulated under Section 302 as extremely hazardous chemicals for emergency release notification (CERCLA List).

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PR-1776M B-2, Part A

FM5410C

Effective Date: 09/30/02

CALIFORNIA PROPOSITION 65 - Reportable ingredients:

Chemicals known by the state of CA to cause cancer:

This product contains the following chemical which is known to the state of California to cause cancer.

000107-13-1 Acrylonitrile

Chemicals known by the state of CA to cause reproductive toxicity: This product does not contain any chemicals currently on the California list of known Reproductive Toxins.

TSCA Section 12(b) - Export Notification:

This product does not contain any chemicals subject to Section 12(b) export notification.

CLEAN AIR ACT - Hazardous Air Pollutants (CAA Section 112): This product contains the following chemicals regulated under Section 112 for National Emission Standards of Hazardous Air Pollutants notification.

000107-13-1 Acrylonitrile 001313-13-9 Manganese Dioxide

Pennsylvania Right to Know - Reportable Ingredients: The following is required composition information. Also, review

Section II for additional information for other chemicals.

014807-96-6 Talc

026140-60-3 Terphenyls 061788-32-7 Hydrogenated Terphenyl

New Jersey Right to Know - Reportable Ingredients:

The following is required composition information. Also, review Section II for additional information for other chemicals.

Manganese Dioxide 001313-13-9

014807-96-6 Talc

PR-1776M B-2, Part A FM5410C

5410C Effective Date: 09/30/02

SECTION XVI - OTHER INFORMATION

Effective Date: 09/30/02 Supersedes Date: 01/18/2002

Revision Number: 02

Revision Reason: General Update

The information in this MSDS was obtained from sources which we believe to be reliable. However, since much of the information has been received from sources outside the company, it is provided without any warranty, expressed or implied, regarding its correctness, or suitability for specific situations. The conditions of handling, storage, use, and disposal of this product are beyond our control and may be beyond our knowledge. The user has the sole responsibility to determine the suitability of the material for any use, and the manner and conditions of use. Therefore, we cannot assume responsibility and expressly disclaim liability for loss, damage, injury, or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials.

End of Document

PR-1776M B-2, Part B

FM5449A Effective Date: 08/09/05

SECTION I - MANUFACTURER AND PRODUCT INFORMATION

PRC-DeSoto International, Inc.

A PPG Industries Company Information Phone: (818) 240-2060 5430 San Fernando Road Emergency Phone: (800) 228-5635 P.O. Box 1800 Outside of USA: +(651) 632-9265 Glendale, CA 91209 CHEMTREC: (800) 424-9300

Trade Name: PR-1776M B-2, Part B

Base component

HMIS HAZARD RATING Product Code: FM5449A HEALTH - 2 Form ID No: A08 FLAMMABILITY - 2

Product Class: Filled Modified polysulfide resin REACTIVITY - 0 PPE - G

Synonyms: P-5449 None(0)--->Extreme(4)

SECTION II - COMPOSITION

INGREDIENTS INFORMATION

CAS NUMBER	Wt %	CHEMICAL IDENTITY
068611-50-7	30 - 60	Liquid Polysulphide Polymer with Thiol End Groups
109159-22-0	10 - 30	Mercaptan Terminated Polysulfide
000471-34-1	10 - 30	Calcium Carbonate
REF00000006	1 - 10	Modified polysulfide polymer
067762-90-7	1 - 10	Amorphous Fumed Silica
000141-78-6	1 - 10	Ethyl Acetate
013463-67-7	< 5	Titanium Dioxide @

EXPOSURE LIMITS (ppm) EXPOSURE LIMITS

	ACGIH	TLVs	OSHA P	ELs	
CAS NUMBER	AWT	STEL	TWA	STEL	
068611-50-7	N/E	N/E	N/E	N/E	
109159-22-0	N/E	N/E	N/E	N/E	
000471-34-1	10 mg/M3	N/E	15 mg/M3	N/E	S
REF00000006	N/E	N/E	N/E	N/E	
067762-90-7	10 mg/m3	N/E	N/E	N/E	S
000141-78-6	400	N/E	400	N/E	S
013463-67-7	10 mg/m3	N/E	10 mg/m3	N/E	S

MATERIAL	SAFETY	DATA	SHEET

PR-1776M B-2, Part B

Effective Date: 08/09/05

Footnotes

(S) Occupational Exposure Standard

(R) Supplier's Recommended Limit

N/Av = Not Available

N/Ap = Not Applicable

N/AV = NOT AVAILABLE N/Ap = NOT Applicable N.E. = Not Established NotknownXXX = CAS Number is not known.

SECTION III - HAZARDS IDENTIFICATION

Permissible Exposure Limits for Product:

Not established for product. See Section II.

ROUTE OF ENTRY AND EFFECTS OF OVEREXPOSURE

ROUTE OF ENTRY:

Inhalation and dermal.

INHALATION:

Vapor or fume will irritate the nose and throat.

EYE CONTACT:

Vapor or fume can irritate the eyes.

SKIN CONTACT:

Substance can cause moderate irritation.

INGESTION:

Ingestion can cause irritation of gastro-intestinal tract.

Contains an ingredient listed as known or suspected carcinogen?

NTP: No OSHA: No

IARC: No

SECTION IV - FIRST AID MEASURES

INHALATION:

If inhaled, remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, transport to medical facility and, if available, give supplemental oxygen.

For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical

SKIN CONTACT:

For skin contact, wipe excess material with dry towel. Then wash

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FM5449A Effective Date: 08/09/05

exposed areas with plenty of water, and soap if available, for several minutes. Get medical attention if irritation occurs. INGESTION:

If swallowed dilute by giving two(2) glasses of water to drink. Get immediate medical attention. Never give anything by mouth to an unconscious person.

GENERAL:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

SECTION V - FIRE AND EXPLOSION HAZARD IDENTIFICATION

FLASHPOINT: 180 F 82.21 C LEL (%): N/Av

Method: Setaflash UEL (%): N/Av

FLAMMABILITY CLASSIFICATION:

Combustible

FIRE AND EXPLOSION HAZARDS:

Decomposition and combustion products may be hazardous. High temperatures may cause pressure build-up in closed containers. Vapors may accumulate in inadequately ventilated or confined areas. Vapors may form explosive mixture with air. Vapors are heavier than air and may travel long distances. Flashback or flame to the handling site may occur. Closed containers may explode when exposed to extreme heat.

EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical, foam.

FIRE FIGHTING PROCEDURES:

Water spray may be ineffective. Cool fire exposed containers with water. Fog nozzles are preferrable. Wear NIOSH/MSHA approved self-contained breathing apparatus and complete protective clothing to prevent contact with skin and eyes.

PR-1776M B-2, Part B

FM5449A Effective Date: 08/09/05

SECTION VI - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Remove all ignition sources. Wear an air-supplied respirator for an unventilated spill. Cover with absorbent. Scoop into containers using non-sparking tools. Clean up residue with a suitable cleaning solvent. Wear appropriate personal protective equipment (See Section VIII).

SECTION VII - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep container tightly closed . Isolate from heat, electrical equipment, sparks and flame. Use grounding and bonding procedures during transfer. Do not store above 120 degrees F. Vapors of this product are heavier than air and may collect in low or confined areas. Empty drums may contain explosive vapors. Do not cut, puncture, or weld on or near drum. Wear proper personal protective equipment (See Section VIII). Wash thoroughly after handling and before smoking or eating.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

DECITOR VIII BATOBOKE CONTROLLO I BADORAD PROTECTION

ENGINEERING CONTROLS:

Local and/or general ventilation as required to maintain hazardous ingredients below recommended (ACGIH-TLV) or regulated (OSHA-PEL) limits.

RESPIRATORY PROTECTION:

When spraying or applying in any circumstances likely to produce airborne levels of solvent vapors in excess of the TLV, use an organic vapor cartridge or air-supplied respirator.

EYE PROTECTION:

Safety glasses.

SKIN PROTECTION:

Solvent resistant gloves.

GENERAL:

Safety shower, eye wash station and washing facilities should be available. When using in circumstances where skin contact is likely, use complete protective garments.

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MATERIAL SAFETY DATA SHEET PR-1776M B-2, Part B FM5449A Effective Date: 08/09/05 SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES Appearance: Beige Physical State:
Low Boiling Point: N/Av
High Boiling Point: N/Av
Evaporation Rate: Slower than n-butyl acetate
Vapor Density: Heavier than air
% Volatiles by Volume: 7.7
Specific Gravity: 1.16
Liquid Density: Heavier than water
Weight Per Gallon: 9.7
79 Physical State: Thixotropic paste VOC (GR/L, Combined): 74 SECTION X - STABILITY AND REACTIVITY STABILITY: Stable. HAZARDOUS POLYMERIZATION: Will not occur. INCOMPATABILITY: Strong oxidizing agents. CONDITIONS TO AVOID: See incompatibilities above. HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen, sulfur dioxide, traces of hydrogen sulfide.

DD 1776M D 2 Dawl	MATERIAL SAFETY DATA SHEET
PR-1776M B-2, Part FM5449A	Effective Date: 08/09/05
	SECTION XI - TOXICOLOGICAL INFORMATION
ACUTE ORAL, DERMAL AN	D INHALATION EFFECTS (LD50 AND LC50):
CAS NUMBER	LD50 LC50
068611-50-7	J: J: = = = = = = = = = = = = = = = = =
109159-22-0	3000 mg/kg,oral,rat N/AV.
	2000 mg/kg,oral,rat N/AV.
REF00000006	N/Av N/Av
	5000 mg/kg,oral,rat 4.9 mg/L,rat,4hr.
000141-78-6	10200 mg/kg, oral, rat 19600 ppm, rat, 4hr.
013463-67-7	7500 mg/kg,oral,rat N/AV.
NOTICE:	
There are no data	available on the product itself.
	SECTION XII - ECOLOGICAL INFORMATION
	SECTION ATT ECONOGICAL INFORMATION
NOTICE:	
There are no data	available on the product itself.
Annel Annie Salme Halle Group (allei Annie Salme Salme Salme Salme Salme Salme Salme Salme Salme Annie	
	SECTION XIII - DISPOSAL CONSIDERATIONS
LINCHE DIODOGAI MEMILOD	
WASTE DISPOSAL METHOD	this material, ensure that it is packaged,
	ed, and otherwise handled in accordance with
	federal regulations.
	SECTION XIV - TRANSPORT INFORMATION
DOT (Non-Bulk):	
PROPER SHIPPING N	AME: Not regulated
HAZARD CLASS:	Not Applicable
UN NUMBER:	Not Available
SPECIAL NOTES:	
None	
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PR-1776M B-2, Part B

FM5449A Effective Date: 08/09/05

SECTION XV - REGULATORY INFORMATION

TSCA Section 8(b) - Inventory Status:

All ingredients in this product are listed in the TSCA Inventory or are exempt from listing.

CANADIAN EPA - DSL Inventory Status:

The DSL status of this product is unknown at this time.

SARA Title III Section 313 - Toxic Chemical List (TCL):

This product does not contain a toxic chemical for routine annual

"Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).

SARA Title III Section 302 - CERCLA:

This product contains the following chemicals regulated under Section 302 as extremely hazardous substance(s) for emergency release notification (CERCLA List).

000141-78-6 Ethyl Acetate

5000

CALIFORNIA PROPOSITION 65 - Reportable ingredients:

Chemicals known by the state of CA to cause cancer:

This product contains the following chemical which is known to the state of California to cause cancer.

000107-13-1 Acrylonitrile

Chemicals known by the state of CA to cause reproductive toxicity: This product does not contain any chemicals currently on the California list of known Reproductive Toxins.

TSCA Section 12(b) - Export Notification:

This product contains following chemical that required annual or one time export notification per chemical and per country.

000141-78-6 Ethyl Acetate

CLEAN AIR ACT - Hazardous Air Pollutants (CAA Section 112):
This product contains the following chemicals regulated under Section 112 for National Emission Standards of Hazardous Air Pollutants notification.

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000107-13-1 Acrylonitrile

Pennsylvania Right to Know - Reportable Ingredients:
The following is required composition information. Also, review Section II for additional information for other chemicals.

000141-78-6 Ethyl Acetate 007757-82-6 Sodium Sulfate 013463-67-7 Titanium Dioxide @

New Jersey Right to Know - Reportable Ingredients: The following is required composition information. Also, review Section II for additional information for other chemicals.

000141-78-6 Ethyl Acetate 013463-67-7 Titanium Dioxide @

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SECTION XVI - OTHER INFORMATION

Effective Date: 08/09/05 Supersedes Date: 01/18/2002

Revision Number: 02

Revision Reason: Formula Update

The information in this MSDS was obtained from sources which we believe to be reliable. However, since much of the information has been received from sources outside the company, it is provided without any warranty, expressed or implied, regarding its correctness, or suitability for specific situations. The conditions of handling, storage, use, and disposal of this product are beyond our control and may be beyond our knowledge. The user has the sole responsibility to determine the suitability of the material for any use, and the manner and conditions of use. Therefore, we cannot assume responsibility and expressly disclaim liability for loss, damage, injury, or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials.

End of Document