

MATERIAL SAFETY DATA SHEET

PR-1428 A-1/2, Part A
FM0644AA

Effective Date: 09/08/2000

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

Information Phone: (818) 240-2060
Emergency Phone: (800) 228-5635
CHEMTREC: (800) 424-9300

Trade Name: PR-1428 A-1/2, Part A
Accelerator component
Product Code: FM0644AA
Form ID No: A24
Product Class: Manganese dioxide dispersion

HMIS HAZARD RATING
HEALTH - 1
FLAMMABILITY - 1
REACTIVITY - 0
PPE - E
None (0) ---> Extreme (4)

SECTION II - COMPOSITION

INGREDIENTS INFORMATION

CAS NUMBER	Wt %	CHEMICAL IDENTITY
001313-13-9	30 - 60	Manganese Dioxide
061788-32-7	10 - 30	Hydrogenated Terphenyl
001333-86-4	< 5	Carbon Black
026140-60-3	< 5	Terphenyls
000102-06-7	< 5	1,3-Diphenyl Guanidine
014807-96-6	< 5	Talc

EXPOSURE LIMITS

EXPOSURE LIMITS (ppm)

CAS NUMBER	ACGIH TLVs		OSHA PELs		
	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
001333-86-4	3.5 mg/m3	N/E	3.5 mg/m3	N/E	S
026140-60-3	0.5	N/E	0.5	N/E	S
000102-06-7	10 mg/m3	N/E	15 mg/m3	N/E	S
014807-96-6	2 mg/m3	N/E	2 mg/m3	N/E	S

Footnotes

(S) Occupational Exposure Standard

(R) Supplier's Recommended Limit

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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: Yes

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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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: N/Av Method: Not Applicable
LEL (%): N/Av UEL (%): 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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SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general mechanical ventilation.

RESPIRATORY PROTECTION:

Not normally required.

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
Evaporation Rate:	Non-volatile
Vapor Density:	Non-volatile
% Volatiles by Volume:	0
Specific Gravity:	1.88
Liquid Density:	Heavier than water
Weight Per Gallon:	15.62
VOC (GR/L):	N/Av
VOC (GR/L, Combined):	N/Av

SECTION X - STABILITY AND REACTIVITY

STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITY:

Easily oxidizable materials.

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CONDITIONS TO AVOID:

See incompatibilities above.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon and nitrogen, manganese compounds.

SECTION XI - TOXICOLOGICAL INFORMATION

ACUTE ORAL, DERMAL AND INHALATION EFFECTS (LD50 AND LC50):

CAS NUMBER	LD50	LC50
001313-13-9	14900 mg/kg, oral, rat	N/AV.
061788-32-7	10000 mg/kg, oral, rat	4.7 mg/L, rat, 4hr.
001333-86-4	440 mg/kg, oral, rat	6750 mg/m3, rat, 4hr.
026140-60-3	10000 mg/kg, oral, rat	4.7 mg/L, rat, 4hr.
000102-06-7	350 mg/kg, oral, rat	N/AV.
014807-96-6	5000 mg/kg, oral, rat	N/AV.

Carcinogenicity:

Carbon Black:

Based on an IARC conclusion that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black" and inadequate evidence of carcinogenicity in humans. IARC's overall evaluation is that "carbon black is possibly carcinogenic to humans" (Group 2B).

Carbon black has not been listed as a carcinogen by National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety & Health (NIOSH) criteria document on carbon black recommends that only carbon blacks with PAH levels greater than 0.1% be considered suspect carcinogens.

NOTICE:

There are no data available on the product itself.

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SECTION XII - ECOLOGICAL INFORMATION

NOTICE:

There are no data available on the product itself.

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.

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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).

CALIFORNIA PROPOSITION 65 - Reportable ingredients:

Chemicals known by the state of CA to cause cancer:

This product does not contain any chemicals currently on the California list of known carcinogens.

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.

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.

001310-73-2	Sodium Hydroxide
001333-86-4	Carbon Black
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.

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001313-13-9	Manganese Dioxide
001333-86-4	Carbon Black
014807-96-6	Talc

SECTION XVI - OTHER INFORMATION

Effective Date: 09/08/2000 Supersedes Date: 09/08/2000
Revision Number: 00

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

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FM4756A

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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

Information Phone: (818) 240-2060
Emergency Phone: (800) 228-5635
CHEMTREC: (800) 424-9300

Trade Name: PR-1428 A-1/2. Part B
Base component

Product Code: FM4756A

Form ID No: A07

Product Class: Filled Modified polysulfide resin

Synonyms: P-4756

HMIS HAZARD RATING

HEALTH - 2

FLAMMABILITY - 3

REACTIVITY - 0

PPE - H

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

SECTION II - COMPOSITION

INGREDIENTS INFORMATION

CAS NUMBER	Wt %	CHEMICAL IDENTITY
068611-50-7	60 - 90	Liquid Polysulphide Polymer with Thiol End Groups
001317-65-3	10 - 30	Limestone
000471-34-1	10 - 30	Calcium Carbonate
000108-88-3	1 - 10	Toluene
013463-67-7	< 5	Titanium Dioxide @
014808-60-7	< 2	Crystalline Silica Quartz

EXPOSURE LIMITS

EXPOSURE LIMITS (ppm)

CAS NUMBER	ACGIH TLVs		OSHA PELs		
	TWA	STEL	TWA	STEL	
068611-50-7	N/E	N/E	N/E	N/E	
001317-65-3	10 mg/m3	N/E	N/E	N/E	S
000471-34-1	10	N/E	15	N/E	S
000108-88-3	50	N/E	100	N/E	S
013463-67-7	10 mg/m3	N/E	10 mg/m3	N/E	S
014808-60-7	0.1 mg/m3	N/E	0.1 mg/m3	N/E	S

Footnotes

(S) Occupational Exposure Standard

(R) Supplier's Recommended Limit

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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 and mist will irritate nose, throat and respiratory tract.

High vapor concentration may cause dizziness, drowsiness and fatigue.

EYE CONTACT:

Vapor, mist or liquid is severely irritating to eyes and cause blurred vision, redness and tearing.

SKIN CONTACT:

Liquid can cause severe skin irritation with drying, defatting, splitting and cracking on repeated contact.

INGESTION:

Liquid can cause irritation of gastro-intestinal tract followed by nausea and vomiting, abdominal discomfort, and rapid pulse.

DELAYED EFFECTS:

Repeated overexposure may cause headaches, dizziness, drowsiness, unconsciousness and central nervous system effects.

Contains an ingredient listed as known or suspected carcinogen?

NTP: No

OSHA: No

IARC: Yes

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

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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 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: 72 F 22.22 C

Method: PMCC

LEL (%): 1.3

UEL (%): N/Av

FLAMMABILITY CLASSIFICATION:

Flammable

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 preferable. Wear NIOSH/MSHA approved self-contained breathing apparatus and complete protective clothing to prevent contact with skin and eyes.

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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

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:

Chemical goggles or full-face shield.

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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SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red
Physical State: Liquid
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: 13
Specific Gravity: 1.39
Liquid Density: Heavier than water
Weight Per Gallon: 11.58
VOC (GR/L): N/Av
VOC (GR/L, Combined): 157

SECTION X - STABILITY AND REACTIVITY

STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITY:

Strong oxidizing agents.

CONDITIONS TO AVOID:

See incompatibilities above.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon and nitrogen, sulfur dioxide, traces of hydrogen sulfide.

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SECTION XI - TOXICOLOGICAL INFORMATION

ACUTE ORAL, DERMAL AND INHALATION EFFECTS (LD50 AND LC50):

CAS NUMBER	LD50	LC50
068611-50-7	5000 mg/kg, oral, rat	N/AV.
001317-65-3	6450 mg/kg, oral, rat	N/AV.
000471-34-1	2000 mg/kg, oral, rat	N/AV.
000108-88-3	2600 mg/kg, oral, rat	8800 ppm, rat, 4hr.
013463-67-7	7500 mg/kg, oral, rat	N/AV.
014808-60-7	5000 mg/kg, oral, rat	N/AV.

Carcinogenicity:

Crystalline Silica (Quartz):

Crystalline silica dust in its neat form is on the IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans (Volume 42, 1987) concludes that there is sufficient evidence for the carcinogenicity of crystalline silica to experimental animals, and there is limited evidence of the carcinogenicity of crystalline silica to humans. IARC Class 2A.

NOTICE:

There are no data available on the product itself.

SECTION XII - ECOLOGICAL INFORMATION

NOTICE:

There are no data available on the product itself.

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.

EPA WASTE NUMBERS:

D-001 (Ignitable)

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SECTION XIV - TRANSPORT INFORMATION

DOT (Non-Bulk):

PROPER SHIPPING NAME: Adhesives
HAZARD CLASS: 3
UN NUMBER: UN 1133
PACKING GROUP: II
LABEL: Flammable liquid

SPECIAL NOTES:

If package size is < 6.6 gallons, then Packing Group III according to 49 CFR 173.121(b) and IATA 3.3.3.

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.

000108-88-3 : Toluene
001103-38-4 Barium Compounds

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).

000108-88-3 Toluene

1000

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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.

014808-60-7 Crystalline Silica Quartz

Chemicals known by the state of CA to cause reproductive toxicity:

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

000108-88-3 Toluene

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.

000108-88-3 Toluene

Pennsylvania Right to Know - Reportable Ingredients:

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

000108-88-3 Toluene
000137-26-8 Tetramethylthiuram Disulfide
001317-65-3 Limestone
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.

000108-88-3 Toluene
013463-67-7 Titanium Dioxide @
014808-60-7 Crystalline Silica Quartz

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SECTION XVI - OTHER INFORMATION

Effective Date: 10/17/01 Supersedes Date: 12/06/2000

Revision Number: 02

Revision Reason: Update Formula/Section 14

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.

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