

===== Product Identification =====

Product ID:PR-1440, PART A

MSDS Date:12/06/1989

FSC:8030

NIIN:00-753-5003

MSDS Number: BLLVS

=== Responsible Party ===

Company Name:PRODUCTS RESEARCH & CHEMICAL CORPORATION

Address:5430 SAN FERNANDO ROAD

Box:1800

City:GLENDALE

State:CA

ZIP:91209

Country:US

Info Phone Num:818-240-2060

Emergency Phone Num:800-424-9300 CHEM/800-228-5635 MED

Preparer'

s Name:AS

CAGE:DO563

=== Contractor Identification ===

Company Name:PRC-DESOTO INTERNATIONAL, INC. A PPG INDUSTRIES COMPANY

Address:5430 SAN FERNANDO RD

Box:1800

City:GLENDALE

State:CA

ZIP:91209

Country:US

Phone:818-240-2060

CAGE:83574

Company Name:PRODUCTS RESEARCH & CHEMICAL

Address:NOW DBA COURTAULDS AEROSPACE

Box:1800

City:GLENDALE

State:CA

ZIP:91209

Phone:818-240-2060

CAGE:DO563

===== Composition/Information on Ingredients =====

Ingred Name:MANGANESE DIOXIDE (EXPOS LIM B

ASED ON AIRBORNE PARTICLES.  
IN THIS PRODUCT MAT'L IS FULLY ENCAPSULATED-NO AIRBORNE PART)  
CAS:1313-13-9  
RTECS #:OP0350000  
Fraction by Wt: 60%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:5 MG/M3 STEL CEILING  
ACGIH TLV:5 MG/M3

Ingred Name:1,3 DIPHENYL GUANIDINE (DPG)  
CAS:102-06-7  
RTECS #:MF0875000  
Fraction by Wt: < 5%  
Other REC Limits:NONE SPECIFIED

===== Hazards Identification =====

LD50 LC50 Mixture:E CAUS912  
Health Hazards Acute and Chronic:0-424-9300  
CHEM/800-228-5635 MED  
818-240- 2060 AS PRODUCTS RESEARCH & CHEMICAL CORP  
Explanation of Carcinogenicity:MIL-S-8802  
Effects of Overexposure:CL A-2, TY II N/K N/K N/K NA 1.95 NA N/K NA N/K  
UNK NEGLIGIBLE N/K N/K N/K N/K NONE N/K NA NA CO2, DRY CHEMI  
Medical Cond Aggravated by Exposure:CAL, FOAM, WATER. USE AIR SUPPLIED  
RESPIRATOR. USE WATER TO COOL HEAT EXPOSED CONTAINERS.

===== First Aid Measures =====

First Aid:EXCESSIVE HEAT MAY CAUSE DECOMPO  
SITION OF MANGANESE DIOXIDE,  
RESULTING IN OXIDIZATION AND POSSIBLE IGNITION OF HYDROCARBON  
VEHICLE. YESN/K EASILY OXIDIZABLE MATERIALS.

===== Fire Fighting Measures =====

Flash Point:NONE  
Lower Limits:NA  
Upper Limits:NA  
Extinguishing Media:CO2, DRY CHEMICAL, FOAM, WATER.  
Fire Fighting Procedures:USE AIR SUPPLIED RESPIRATOR. USE WATER TO COOL  
HEAT EXPOSED CONTAINERS.  
Unusual Fire/Explosion Hazard:EXCESSIVE HEAT MAY CAUSE DECOMPOSITION OF  
MANGANE

SE DIOXIDE, RESULTING IN OXIDIZATION AND POSSIBLE IGNITION  
OF HYDROCARBON VEHICLE.

===== Exposure Controls/Personal Protection =====

Supplemental Safety and Health  
KEY1:N1.

===== Physical/Chemical Properties =====

HCC:F3  
Boiling Pt:B.P. Text:NA  
Vapor Pres:NA  
Vapor Density:NA  
Spec Gravity:1.95  
Evaporation Rate & Reference:UNK  
Solubility in Water:NEGLIGIBLE

===== Stability and Reactivity Data =====

Stability Indi  
cator/Materials to Avoid:YES  
EASILY OXIDIZABLE MATERIALS.  
Hazardous Decomposition Products:PR-1440, PART A FM  
06DEC8911JUN91GSASEALING COMPOUND, POLYSULFIDE RUBBER PAR  
Conditions to Avoid Polymerization:OF 2 PRODUCTS RESEARCH & CHEMICAL  
CORPORATION 5430 SAN FERNANDO ROAD 1800 GLENDAL

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