

MATERIAL SAFETY DATA SHEET

B370-817

Issue Date: 07/01/96

Review Date: 01/01/01

1. PRODUCT IDENTIFICATION -



RPM, WFG.
3194 Hickory Blvd.
Hudson, NC 28638
Phone: 828-728-8266

B370-817

2. HAZARDOUS INGREDIENTS -

COMPONENTS:	TYPICAL ANALYSIS	CAS NO.	OSHA-PEL	ACGIH-TLV
Iron Oxide	50 - 60%	1309-37-1	10mg/m ³	5mg/m ³ TWA (Iron Oxide Fume as Fe)
Manganite (Mn ₂ O ₃) (Manganese Compound as Mn)	5 - 10%	1317-34-6	5mg/m ³ *	0.2mg/m ³
Carbon Black	1 - 4%	1333-86-4	3.5mg/m ³	3.5mg/m ³ TWA Respirable Dust
Crystalline Silica	.1 - 1%	14808-60-7	10mg/m ³ %SiO ₂ +2	0.1mg/m ³ TWA Respirable Dust

* Ceiling Value

This product contains the following toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Manganese compounds less than 10%.

3. PHYSICAL DATA -

Appearance.....: Solid Powder
 Odor.....: None
 Melt Point/Freeze Point: NA
 Boiling Point.....: NA
 Vapor Pressure (mm Hg.): NA
 Vapor Density (AIR=1)...: NA
 Evaporation Rate.....: NA
 (Butyl Acetate=1)
 Specific Gravity H₂O=1.: 3.00 - 3.60
 Solubility in Water....: Insoluble

HAZARDOUS MATERIALS IDENTIFICATION SYSTEMS (HMIS)

HEALTH 1 FLAMMABILITY 0 REACTIVITY 0

4. FIRE AND EXPLOSION DATA -

Flash Point °F(°C) .: NA

Flammable Limits: Lel - NA

Uel - NA

Extinguishing Media: Use extinguishing agents that are suitable to the surrounding fire.

Special Fire Fighting Procedures/Unusual Fire or Explosion Hazards:

Firefighters should wear self-contained breathing apparatus.

5. REACTIVITY DATA -

Stability: Stable

Conditions to Avoid: None

Incompatibility (Material to Avoid): Concentrated acid solutions. Material contains manganese which when exposed to acids can liberate hazardous gases.

Hazardous Decomposition or Byproducts: None

Hazardous Polymerization: Will not occur

Conditions to Avoid: None

6. HUMAN HEALTH DATA -

Health Hazards (Acute and Chronic):

Acute: Inhalation of the dust may cause mechanical irritation to the respiratory tract. Skin and eye contact may cause a mechanical abrasion irritation.

Chronic: Long term overexposure to silica causes silicosis, a form of pulmonary fibrosis. Continued exposure to silica can lead to cardiopulmonary impairment.

Carcinogenicity - NTP.....: Yes

IARC Monographs: Yes

OSHA Regulated.: Yes

This product is considered a carcinogen by IARC because it contains crystalline silica at levels greater than .1%. This product also contains carbon black, IARC's overall evaluation is that "carbon black is possibly carcinogenic to humans (Group 2B)".

EMERGENCY & FIRST AID PROCEDURES -

Eye Contact.: Flush eyes with plenty of water, lifting lids periodically for at least 15 minutes. Consult a physician if irritation persists.

Skin Contact: Wash with soap and water.

Inhalation...: Remove from dusty area to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion...: Immediately contact a physician.

7. SPILL OR LEAK PROCEDURES -

Steps to be taken in case material is released or spilled: Vacuum or scoop material into an appropriately marked container for reclamation or disposal. Avoid excessive generation of dust. If dust is generated, use appropriate respiratory protection.

Waste disposal method: Material which cannot be recycled into your process should be landfilled in accordance with federal, state and local environmental control regulations.

Handling and Storing: Store dry at ambient temperature away from food and beverages. Avoid breathing dust. Avoid contact with eyes and skin. Wash thoroughly after handling.

8. EMPLOYEE PROTECTION RECOMMENDATIONS -

Eye Protection.: Safety glasses

Skin Protection: Rubber, cloth or plastic gloves if appropriate for job conditions.

Respiratory.....: Work ambient concentrations should be monitored and if the Protection recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator should be worn. (Do not exceed use limits of the respirator.)

Ventilation.....: Use local ventilation to maintain air levels below the recommended exposure limit if dusting is a problem.

Other.....: Eye wash stations and washing facilities should be available. Employees should wash their hands and face before eating, drinking or using tobacco products.

OTHER REGULATORY INFORMATION

The following chemicals are specifically listed by individual states; other product specific health and safety data, in other sections of the MSDS, may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

<u>COMPONENT NAME/CAS NUMBER</u>	<u>CONCENTRATION</u>	<u>STATE CODE</u>
Umber/12713-03-0	Approx. 100%	CA; NJ4; PA3; CN1
Arsenic/7440-38-2	100 - 350 ppm*	CA; MA
Lead/7439-92-1	100 - 200 ppm*	CA; MA
Cadmium/7440-43-9	< 10 ppm*	CA; MA
Copper/7440-50-8	500 - 750 ppm*	CA; MA
Manganese/7439-96-5	< 10%	CA; MA; NJ4; PA3
Chromium/7440-47-3	10 - 30 ppm*	CA; MA
Zinc/7440-66-6	300 - 600 ppm*	CA; MA
Selenium/7782-49-2	< 15 ppm*	CA; MA
Barium Insoluble/7440-39-3	500 - 2000 ppm	CA; MA

For more information reference Section 2.

 CA = California Proposition 65 - Warning: This product contains chemicals known to the State of California to cause cancer.

MA = Massachusetts Hazardous Substance List

NJ4 = New Jersey Other - included in 5 predominant ingredients > 1%

PA3 = Pennsylvania Non-hazardous present at 3% or greater.

CN1 = Canada WHMIS Ingredient Disclosure List over 1%.

* Please note that these were random sample analyses and content may vary from batch to batch.

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