



# Safety Data Sheet

## MPI-86R

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Date Revised 12/18/2014  
Supersedes 2/2010

### 1 Product and Company identification:

Product Name: **MPI-86R**  
Manufacturer: Met-L-Chek Company  
1639 Euclid Street  
Santa Monica, California, 90404, U.S.A.  
Phone: +1-310-450-1111  
Fax : +1-310-452-4046  
E-mail: info@met-l-chek.com  
Web: www.met-l-chek.com

**Emergency Phone #:** Chemtrec +1-800-424-9300 in U.S.A.; outside U.S.A. 001-703-527-3887

Recommended Use: NDT magnetic particle inspection, red dry method, per ASTM E-709 & ASTM E-1444.  
Restrictions on Use: not established  
Prepared by: Met-L-Chek Company 12/17/2014

### 2 Hazards identification:

#### GHS: Classification:

Physical Hazard Not classified  
Health Hazard Not classified

**Pictograms:** None

**Signal Word:** Warning

**Hazard Statements:** May form combustible dust concentrations in air

#### Precautionary statements:

- P102:** Keep out of reach of children.
- P261:** Avoid breathing dust/fumes/gas/mist/vapors/spray.
- P264:** Wash thoroughly after handling.
- P280:** Wear protective glove/clothing/eye protection/face protection.
- P284:** In case of inadequate ventilation wear respiratory protection.

OSHA Hazards: combustible dust

HMIS Classification: Health hazard-1, Flammability-1, Reactivity-0.

### 3 Composition/information on ingredients:

Ingredient(s)	CAS #	% by Weight
Iron powder	7439-89-6	> 95
Pigment	5160-02-1	< 3

### 4 First-aid measures:

GHS response statements:

**IF SWALLOWED:** Rinse mouth, Do Not induce vomiting, get medical attention if feeling unwell.

**IF ON SKIN:** Wash with plenty of water. If skin irritation occurs, get medical advice/attention.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing, get medical advice/attention if you feel unwell.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easily to do. Continue rinsing, get medical attention.

**IF ON CLOTHING:** Take off contaminated clothing and wash it before reuse.

### 5 Fire-fighting measures:

**Suitable extinguishing agents:** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust. Do not use water jet as an extinguisher, as this will spread the fire.

**Explosion hazard:** Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard..

**Special protective equipment for fire-fighters:** Wear self-contained respiratory protective device. Wear fully protective suit.

### **6 Accidental release measures:**

**Personal precautions, protective equipment and emergency procedures:** Keep unnecessary personnel away. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Use only non-sparking tools. Wear appropriate personal protective equipment. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

**Methods and materials for containment and cleaning up:** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

**Large Spills:** Sweep or shovel up material and place in a clearly labeled container for waste. Following product recovery, flush area with water.

**Small Spills:** Collect dust using a vacuum cleaner equipped with HEPA filter.

**Environmental precautions:** Avoid discharge into drains, water courses or onto the ground.

### **7 Handling and storage:**

**Precautions for safe handling:** Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Explosion proof exhaust ventilation is recommended. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid prolonged exposure.

**Conditions for safe storage:** Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep away from heat, sparks and open flame.

### **8 Exposure controls/personal protection:**

**Eye Protection:** Chemical splash goggles, face shield.

**Skin Protection:** Wear resistant gloves such as Nitrile Rubber, impervious clothing, apron and boots are suggested as well.

**Ventilation System:** A system of local or general exhaust is recommended to keep employee exposure below the airborne exposure limits. If exposure limit is exceeded an approved dust respirator must be worn or self contained breathing apparatus.

**Exposure Limits:** US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Pigment (CAS 5160-02-1) PEL 0.5 mg/M<sup>3</sup>

US. ACGIH Threshold Limit Values

Pigment (CAS 5160-02-1) TWA 0.5 mg/M<sup>3</sup>

US NIOSH Pocket Guide to Chemical Hazards: Recommended exposure limit (REL)

Pigment (CAS 5160-02-1) TWA 0.5 mg/M<sup>3</sup>

**General hygiene considerations:** When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.



### **9. Physical properties: (bulk material)**

Form: red powder

Melting Point: 1535°C (2795°F)

Density: 2.5 g/cm<sup>3</sup> at 20°C(68°F)

Vapor Pressure :not applicable

### **10. Stability and reactivity:**

**Reactivity:** Stable under ordinary conditions of use and storage, under fire conditions will form carbon dioxide.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** strong oxidizing agents.

### **11 Toxicological information:**

**Acute toxicity:** expected to be a low hazard for usual industrial or commercial handling by trained personnel.

**Skin corrosion/irritation:** Prolonged skin contact may cause temporary irritation.

**Eye damage/eye irritation:** Direct contact with eyes may cause temporary irritation.

**Respiratory sensitization:** Not a respiratory sensitizer.

**Germ cell mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA

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# Safety Data Sheet

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### IARC Monographs. Overall Evaluation of Carcinogenicity:

Pigment red (CAS 5160-02-1) 3 Not classifiable as to carcinogenicity to humans

**Reproductive toxicity:** This product is not expected to cause reproductive or developmental effects.

**Chronic effects:** Prolonged inhalation may be harmful.

### 12 Ecological information:

**General notes:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence/degradability:** No data

**Other adverse effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13 Disposal considerations:

**Disposal instructions:** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transportation information:

#### USA DOT Information

Shipping name: not regulated

#### IATA/MDG

Shipping name not regulated

### 115. Regulatory information:

**U.S. Federal regulations:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** not listed.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4):** not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA: Immediate hazard -No; Delayed hazard -No; Fire hazard -No;**

**Pressure hazard-No; Reactivity hazard-No.**

**SARA 302 Extremely hazardous substance:** not listed.

**SARA 311/312 Hazardous Chemical:** yes.

**SARA 313 (TRI reporting):** Pigment red CAS# 5160-02-1 500lbs.

**California Proposition 65:-** Warning: This product contains a chemical known to the State of California to cause cancer Pigment (CAS 5160-02-1) .

**Massachusetts Right to Know:**Not regulated.

**New Jersey Right to Know:-** Pigment (CAS 5160-02-1) 500lbs

**Pennsylvania Right to Know:-**not regulated.

**Canada Domestic Substances List (DSL)** yes.

**Canada Non-Domestic Substances List (NDSL)** no.

**China (IECSC)** yes.

**European inventory** yes.

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information:

The information accumulated herein is believed to be accurate but does not purport to be all inclusive and shall be used only as a guide. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances with regard to proper safety precautions.

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