

MSDS NUMBER: 0008

PRODUCT CODE: various

MSDS DATE: June 11, 2009

KEY NUMBER:

EMERGENCY PHONE #'s: 773-247-6000



International Polishing Techniques
6683 Schuster Las Vegas NV 89118 USA
(702) 656-9767

HEALTH	1	Slightly Hazardous
FIRE	2	Flash Point: Below 200 °F, 93 °C
REACTIVITY	1	Unstable If Heated
SPECIFIC		-

1. IDENTIFICATION

See Addendum: Ref. PAGE:

Chemical Name: Iron

Chemical Family: Transitional metals

CAS #: 7439-89-6

Chemical Formula:

CAS Name: Iron

Molecular Weight: 55.847

Synonyms / Common Name: Low carbon steel

DOT Information: Not regulated

2. PHYSICAL DATA

See Addendum: Ref. PAGE:

Appearance: chopped fiber

Color: grey

State: solid

Odor Characteristics: negligible

pH: not available

Viscosity:

Specific Gravity (Water = 1): 7.86 @ 20C

Vapor Density (Air = 1): not available

Vapor Pressure: mm Hg @ 1787C = 1

Melting Point: 1535F (2795C)

Boiling Point: 2795F (4982C)

Flash Point: Not applicable

Freezing Point:

Percent Volatility:

Evaporation Rate (BAC = 1): negligible

Solubility in Water: insoluble, can react w/water

Solubility in Oil:

Solubility in Acetone:

3. INGREDIENTS

See Addendum: Ref. PAGE:

Material / Components	CAS #:	CAS Name	TLV Units	Approx. %
Iron	7439-89-6	Iron	TWA mg/m3 = 5	60 - 100

4. FIRE AND EXPLOSION HAZARD DATA

See Addendum: Ref. PAGE:

Flash Point: Not applicable

Flammable Limits in Air % by volume: Lower not applicable, Upper not applicable

Extinguishing Media: Use class D extinguishing material

Special Fire Fighting Procedures: Structural fire fighters must wear NIOSH-approved self contained breathing apparatus and full protective equipment with full face piece operated in the pressure demand mode. Incipient fire responders should wear eye protection.

Unusual Fire & Explosion Hazards: High levels of dust may be an explosion hazard. When involved in a fire, this material may decompose generating dusts, irritating fumes and toxic gases (Iron oxides).

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MATERIAL SAFETY DATA SHEET PAGE #: 2 OF 4

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5. HEALTH HAZARD DATA

See Addendum:

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Threshold Limit Value: Overexposure is not anticipated to be a significant occurrence in occupational use.

Effects of Overexposure:

Inhalation: Overexposure can cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

Skin Contact: The material is not reported to be absorbed through intact skin. Contact to skin may cause irritation.

Eye Contact: May cause irritation, redness and pain. Deposition of iron particles can leave a rust ring or brownish stain on the cornea.

Ingestion: Long term ingestion of greater than 50 - 100 mg of iron a day may result in iron deposition in body tissues. Repeated iron ingestion can produce cardiac toxicity.

Delayed Effects: Not applicable

Medical Conditions Aggravated by Exposure: Depending on the duration of contact, overexposures to dust or particles of steel wool can mildly to moderately irritate the eyes and gastrointestinal tract.

6. FIRST AID MEASURES

See Addendum:

PAGE #:

Inhalation: Remove victim to fresh air. Victim must seek immediate medical attention if any adverse exposure symptoms develop.

Skin Contact: Wash with running water. Remove contaminated clothing, taking care not to contaminate eyes. Victim must seek immediate medical attention if any adverse exposure symptoms develop.

Eye Contact: Flush with running water for at least 15 minutes. Seek medical attention.

Ingestion: If product is swallowed, call poison control for the most current information. Do NOT induce vomiting.

NOTES TO PHYSICIAN: Treat symptoms

7. REACTIVITY DATA

See Addendum:

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Stability: Decomposes when heated. Stable in dry air; oxidizes in moist air forming rust.

Incompatibility: (materials to avoid) Not compatible with strong oxidizers, acids, hydrogen peroxide, nitrogen dioxide. May react with acetaldehyde, ammonium peroxodisulfate, chloroformanidinium, chloric acid, ammonium nitrate, halogens, dinitrogen tetroxide, nitryl fluoride, polystyrene.

Hazardous Combustion or Decomposition Products: Thermal decomposition of this product may generate dusts, irritating fumes & toxic gases (iron oxides)

Hazardous Polymerization: Will not occur

Conditions to Avoid: Avoid heat, flame, ignition sources, dusting and incompatible chemicals

8. SPILL OR LEAK PROCEDURES

See Addendum:

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Actions to take for Leaks & Spills: Wear gloves

Waste Disposal Method: Dispose of according to pertinent state and local requirements.

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9. SPECIAL PROTECTION INFORMATION

See Addendum:

Ref. PAGE:

Respiratory Protection: None needed under normal conditions of use. Use NIOSH approved respirators when applicable airborne exposure limits are exceeded or if ventilation is inadequate to control dusts, mists, fumes or vapors.

Eye Protection: Wear eye protection, such as safety glasses

Skin Protection: Protective gloves is recommended

Other Clothing: No specific body protection is normally needed

Other Equipment: None

Engineering Controls: None

10. HANDLING AND STORAGE

See Addendum:

Ref. PAGE:

Special Precautions: Store product in cool dry place

Other Precautions: Store product away from direct sources of intense heat. Store away from incompatible materials.

11. REGULATORY INFORMATION

See Addendum:

Ref. PAGE:

Workplace Classification: HMIS personal protective equipment rating: industrial use situations: B; safety glasses and gloves

12. TOXICOLOGICAL INFORMATION

See Addendum:

Ref. PAGE:

Acute Data: Currently, there is no toxicity data available for this product.

Reproductive / Teratology Data This product is not reported to cause reproductive effects in humans when used as instructed. This product is not reported to cause teratogenic effects in humans when used as instructed.

13. ECOLOGICAL INFORMATION

See Addendum:

Ref. PAGE:

Fate in the Environment: All workplace practices must be aimed at eliminating environmental contamination.

14. DISPOSAL CONDITIONS

See Addendum:

Ref. PAGE:

Procedures: Waste disposal must be in accordance with appropriate US Federal, State and local regulations or with regulations of the country in which it is used.

15. TRANSPORTATION INFORMATION

See Addendum:

Ref. PAGE:

DOT Classification: Not regulated

Warning Labels: None

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16. OTHER INFORMATION

None