acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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1 Identification	
· Product identifier	
 Trade name: Iron Filings, 40 mesh Product code: FEDIF-5008-P CAS Number: 7439-89-6 	
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information 	available.
 Details of the supplier of the Safety Date Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: Fisher Science Education 6771 Silver Crest Road Nazareth, PA 18064 (800) 955-1177 	¦a Sheet
 Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) 	
2 Hazard(s) identification	
· Classification of the substance or mixt	ure
Combustible Dust May form combustible du	st concentrations in air.

[.] Label elements

· GHS label elements

- The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms: None.
- · Signal word: Warning

· Hazard statements:

May form combustible dust concentrations in air.

· Precautionary statements: None.

• Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

- [•] Chemical characterization: Substances
- · CAS No. Description
- 7439-89-6 Iron

· Additional information:

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For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

· Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Brush off loose particles from skin. Wash with soap and water.

· After eve contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing: Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Mechanical irritation to eyes.

Nausea in case of ingestion.

Gastric or intestinal disorders when ingested.

· Danger: No relevant information available.

• Indication of any immediate medical attention and special treatment needed: If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

[·] Extinguishing media

· Suitable extinguishing agents:

Dry sand.

Graphite powder.

Special powder for metal fires. Do not use water.

• For safety reasons unsuitable extinguishing agents: Water

• Special hazards arising from the substance or mixture May form combustible dust concentrations in air.

Reacts with steam releasing flammable gases (hydrogen).

Formation of toxic gases is possible during heating or in case of fire.

- [•] Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

Wear fully protective suit.

• Additional information: Eliminate all ignition sources if safe to do so.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation.

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Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources. Do not allow contact with water.

Environmental precautions
 Do not allow to enter sewers/ surface or ground water.
 Inform respective authorities in case of seepage into water course or sewage system.

 Methods and material for containment and cleaning up

Pick up mechanically. Send for recovery or disposal in suitable receptacles.

• **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

· Handling

· Precautions for safe handling:

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

Use only in well ventilated areas.

- Information about protection against explosions and fires: May form combustible dust concentrations in air. Releases flammable gases in contact with heated water or steam.
- Conditions for safe storage, including any incompatibilities
 Requirements to be met by storerooms and receptacles: Avoid storage near extreme heat, ignition sources or open flame.

 Information about storage in one common storage facility: Store away from foodstuffs.
 Store away from oxidizing agents.
 Do not store together with acids.
 Do not store together with alkalis (caustic solutions).
 Protect from humidity and water.
 Further information about storage conditions: Keep containers tightly sealed.

• Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

Control parameters

· Components with limit values that require monitoring at the workplace:

7439-89-6 Iron

EV (Canada)	Long-term value: 1* 5** mg/m ³
	as iron;*salts, water-soluble;**welding fume
LMPE (Mexico)	Long-term value: 1 mg/m ³

• Exposure controls

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• General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Engineering controls: Provide adequate ventilation.
- · Breathing equipment: Not required under normal conditions of use.
- Protection of hands:
- Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules.
- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Protective work clothing
- · Limitation and supervision of exposure into the environment No special requirements.
- · Risk management measures No special requirements.

Chemical properties Powder Black Ddorless Not determined. Not applicable. Not determined. Not determined. The product is not flammable. May form combustible dust concentrations in air. Not determined.
Black Ddorless Not determined. Not applicable. Not determined. Not determined. The product is not flammable. May form combustible dust concentrations in air.
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Not determined.
Not determined.
Product does not present an explosion hazard.
Not determined.
Not determined.
Not determined.
Not determined.

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Density:						
Relative density:	Not determined.					
Vapor density:	Not applicable.					
Evaporation rate:	Not applicable.					
Solubility in / Miscibility with						
Water:	Insoluble.					
· Partition coefficient (n-octanol/water): Not determined.						
· Viscosity						
Dynamic:	Not applicable.					
Kinematic:	Not applicable.					
Other information	No relevant information available.					
Reactivity: No relevant inform						
	ler normal temperatures and pressures.					
Reactivity: No relevant inform Chemical stability: Stable unc Thermal decomposition / cor	ler normal temperatures and pressures. Iditions to be avoided:					
Reactivity: No relevant inform Chemical stability: Stable und Thermal decomposition / cor No decomposition if used and s	ler normal temperatures and pressures. Iditions to be avoided: stored according to specifications.					
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· Information on toxicological effects

• Acute toxicity: Based on available data, the classification criteria are not met.

- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:

• On the skin: Based on available data, the classification criteria are not met.

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On the eye: Based on available data, the classification criteria are not met.
 Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

Substance is not listed.

· NTP (National Toxicology Program):

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration):

Substance is not listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

- · Acute effects (acute toxicity, irritation and corrosivity): No relevant information available.
- · Repeated dose toxicity: No relevant information available.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- [.] Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- Additional ecological information
- · General notes: Not known to be hazardous to water.
- [•] Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· Uncleaned packagings

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· Recommendation: Disposal must be made according to official regulations.

4 Transport information		
[·] UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
 [.] UN proper shipping name [.] DOT, ADR/RID/ADN, IMDG, IATA 	Not regulated.	
[·] Transport hazard class(es)		
 DOT, ADR/RID/ADN, IMDG, IATA Class 	Not regulated.	
 Packing group DOT, ADR/RID/ADN, IMDG, IATA 	Not regulated.	
· Environmental hazards	Not applicable.	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Anno MARPOL73/78 and the IBC Code	ex II of Not applicable.	

15 Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture

- · United States (USA)
- · SARA

· Section 302 (extremely hazardous substances):

Substance is not listed.

· Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act)

Substance is not listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause developmental toxicity for females:

Substance is not listed.

· Chemicals known to cause developmental toxicity for males:

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Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· EPA (Environmental Protection Agency):

Substance is not listed.

· IARC (International Agency for Research on Cancer):

Substance is not listed.

Canadian Domestic Substances List (DSL) (Substances not listed.):

Substance is listed.

16 Other information

Website: www.chemtelinc.com

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration Sources Website, European Chemicals Agency (echa.europa.eu) Website. US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573