

Iron, Powder, 97%, -325 mesh
ACROS96163

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Iron, Powder, 97%, -325 mesh

Catalog Numbers:

AC197810000, AC197810020, AC197810050, AC197815000

Synonyms:

Iron Dust; Iron Metal; Iron Powder.

Company Identification (Europe): Acros Organics N.V.

Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

Company Identification (USA): Acros Organics

One Reagent Lane
Fairlawn, NJ 07410

For information in North America, call: 800-ACROS-01

For information in Europe, call: 0032(0) 14575211

For emergencies in the US, call CHEMTREC: 800-424-9300

For emergencies in Europe, call: 0032(0) 14575299

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#
7439-89-6	Iron Powder, -325 Mesh	>97	231-096-4

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: black-gray.

Warning! Flammable solid. Moisture sensitive. May cause liver damage. May cause cardiac disturbances. May cause lung damage. May cause mechanical eye and skin irritation. Inhalation of fumes may cause metal-fume fever. May cause blood abnormalities.

Target Organs: Liver, respiratory system, cardiovascular system, pancreas.

Potential Health Effects

Eye:

Exposure to particulates or solution may cause conjunctivitis, ulceration, and corneal abnormalities. Deposition of particles may cause corneal discoloration.

Skin:

May cause skin irritation.

Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Acute toxicity may include weakness, shock, cyanosis and acidosis. Delayed symptoms may include liver

Inhalation:

Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count. May cause lung damage.

Chronic:

Chronic exposure may lead to liver and lung damage. Repeated exposure may cause pancreatic damage, diabetes, and cardiac abnormalities. Chronic exposure may lead to chronic bronchitis and a benign pneumoconiosis (siderosis).

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and

Antidote:

The use of Deferoxamine as a chelating agent should be determined only by qualified medical personnel.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. Combustion generates toxic fumes.

Extinguishing Media:

Use only graphite powder, soda ash, powdered sodium chloride, or an appropriate metal-fire-extinguishing dry powder.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust

generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Keep container closed when not in use. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA-FinalPELs
Iron Powder, -325 Mesh	as Fe: 1 mg/m3 TWA (listed under ** no name **).	1 mg/m3 TWA (listed under ** no name **).	none listed

OSHA Vacated PELs:

Iron Powder, -325 Mesh:
as Fe: 1 mg/m3 TWA (listed under ** no name **)

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Solid
 Appearance: black-gray
 Odor: None reported.
 pH: Not available.
 Vapor Pressure: 1 mm Hg @ 1787C
 Vapor Density: Not available.
 Evaporation Rate: Negligible.
 Viscosity: Not available.

Boiling Point: 3000 deg C @ 760.00mmHg
Freezing/Melting Point: 1535 deg C
Autoignition Temperature: Not available.
Flash Point: Not available.
NFPA Rating:
Explosion Limits, Lower: Not available.
Upper: Not available.
Decomposition Temperature:
Solubility: insoluble
Specific Gravity/Density: 7.8600g/cm3
Molecular Formula: Fe
Molecular Weight: 55.84

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:

Decomposes when heated. Oxidizes when exposed to air.

Conditions to Avoid:

Incompatible materials, moisture, exposure to air, excess heat.

Incompatibilities with Other Materials:

Acetaldehyde, ammonium peroxodisulfate, chloroformamidinium, chloric acid, ammonium nitrate, halogens, dinitrogen tetroxide, nitryl fluoride, polystyrene, sodium acetylide, potassium dichromate, peroxyformic acid, nitryl fluoride, sulfuric acid, sodium carbide, strong oxidizers, phosphorous, halogens.

Hazardous Decomposition Products:

Oxides of iron.

Hazardous Polymerization: Has not been reported.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:

CAS# 7439-89-6: NO4565500

LD50/LC50:

CAS# 7439-89-6: Oral, rat: LD50 = 30 gm/kg.

Carcinogenicity:

Iron Powder, -325 Mesh -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology:

No information available.

Teratogenicity:

No information available.

Reproductive Effects:

No information available.

Neurotoxicity:

No information available.

Mutagenicity:

No information available.

Other Studies:

None.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Other

No information available.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Chemical waste generators must determine whether a discarded chemical is class if as a hazardous waste.US EPA guidelines for the classification determination are listed in 40 CFR Part Additionally, waste generators must consult state and local hazardous waste regu ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

**** SECTION 14 - TRANSPORT INFORMATION ****

US DOT

No information available

Canadian TDG

No information available.

**** SECTION 15 - REGULATORY INFORMATION ****

US FEDERAL

TSCA

CAS# 7439-89-6 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7439-89-6: acute, flammable.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly Hazardous by OSHA.

STATE

Iron Powder, -325 Mesh can be found on the following state right to know lists: California, Pennsylvania, (listed as ** no name **), Minnesota, (listed as ** no name **).

California No Significant Risk Level:

None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 7439-89-6: 0

United Kingdom Occupational Exposure Limits

CAS# 7439-89-6: OES-United Kingdom, TWA (listed as ** undefined **): as Fe: 1 mg/m3 TWA

CAS# 7439-89-6: OES-United Kingdom, STEL (listed as ** undefined **): as Fe: 2 mg/m3 STEL

Canada

CAS# 7439-89-6 is listed on Canada's DSL/NDSL List.

WHMIS: Not available.

CAS# 7439-89-6 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 7439-89-6: Not available.

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 7/09/1998 Revision #1 Date: 8/02/2000

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.
