



Safety Data Sheet

According to 29 CFR 1910.1200 (OSHA HCS)

SDS No. 923

Review date: October 23, 2019

1 Identification of substance and company

Product details

Product name:

Iron Metal Pieces, Rod, Slugs or Powder, >75 MU

Product code:

11553, 11982, 12415, 12845, 14066, 14584, 15947, 16033, 16276, 17021, 17888, 18026
18388, 90100, 90150, C2719, C2853

Relevant identified uses of the substance:

Research and product development

Manufacturer/Supplier:

Noah Technologies Corporation
1 Noah Park
San Antonio, Texas 78249-3419
Phone: 210-691-2000
Fax: 210-691-2600
Web site: www.noahtech.com
CHEMTREC
800-424-9300

Emergency information:

2 Hazards identification

Hazard designation:

None

Information pertaining to particular dangers for man and environment:

Not applicable

HMIS ratings (scale 0-4):

Health: 1

Flammability: 0

Physical hazard: 0

3 Composition/Information on ingredients

Chemical name:

Iron metal pieces, rod, slugs or powder > 75 mu

Designation: (CAS#):

7439-89-6

EC Number:

231-096-4

Formula:

Fe

Synonyms:

Iron metal

4 First aid measures

After inhalation:

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

After skin contact:

Wash off with soap and plenty of water.

After eye contact:

Rinse opened eye for at least 15 minutes under running water. Assure adequate flushing by separating the eyelids with fingers.

After ingestion:

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Information for doctor:

Show this safety data sheet to the doctor in attendance

Immediate medical attention and special treatment needed:

May cause irritation to the eyes, skin, and/or respiratory system

5 Fire-fighting measures

Suitable extinguishing agents:

Use extinguishing media most appropriate to surrounding fire conditions

Special hazards caused by the material, its products of combustion or resulting gases:

Oxides of iron

Special fire fighting procedures:

Wear self-contained breathing apparatus

Wear fully protective fire fighting equipment/clothing in fire situations

Unusual fire and explosion hazard:

In the form of powder or dust this product is an explosion hazard.

6 Accidental release measures

Person-related safety precautions:

Avoid dust formation. Avoid breathing vapors, mist or gas.

For personnel protection see Section 8

Measures for environmental protection:

No special precautions required.

Measures for cleaning/collecting:

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Additional information:

See Section 7 for information on safe handling

See Section 8 for information on personal protective equipment

See Section 13 for information on disposal

7 Handling and storage

Information for safe handling:	Keep containers tightly sealed Store in cool, dry place in tightly closed containers Ensure good ventilation/exhaustion at the workplace
Information about protection against explosions and fires:	This product is not flammable
Storage requirements to be met by storerooms and containers:	No special requirements
Incompatibility (avoid contact with):	Strong oxidizers, halogens, phosphorous, oxygen Water/moisture
Further information about storage conditions:	Keep container tightly sealed Store in cool, dry conditions in well sealed containers

8 Exposure controls/personal protection

Ventilation requirements:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute
Components with critical values that require monitoring at the workplace:	OSHA PEL: TWA 10 mg (Fe ₂ O ₃)/m ³ ACGIH TLV: TWA 5 mg (Fe ₂ O ₃)/m ³
Additional information:	None
Personal protective equipment:	
General protective and hygienic measures:	The usual precautionary measures should be adhered to in handling the chemicals Keep away from foodstuffs, beverages and food Instantly remove any soiled and impregnated garments Wash hands during breaks and at the end of the work Avoid contact with the eyes and skin
Personal protective equipment:	
Respiratory protection:	Use suitable respirator when high concentrations are present
(Use only NIOSH or CEN approved Equipment)	Use only NIOSH/MESA or CEN approved dust mask type N95 or TYPE P1 (EN 143)
Hand protection:	Handle with gloves. Gloves must be inspected prior to use.
Eye protection:	Safety glasses
Skin protection:	Protective work clothing
Additional protective equipment:	Sufficient to prevent contact Emergency eyewash and safety shower
Precautionary labeling:	Wash thoroughly after handling Do not get in eyes, on skin or on clothing Do not breathe dust, vapor, mist, gas Store in tightly closed containers Store in a cool, dry place. Irritant.

9 Physical and chemical properties

General Information:	
Physical state:	Pieces, rods, slugs
Color:	Black-grey , silvery
Odor:	Odorless
Odor threshold:	No data available
Molecular Weight (Calculated):	55.85
pH (5% solution)	No data available
Melting point/freezing point/range:	1535 C
Boiling point/range:	2750 C
Sublimation temperature/start:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	
Flash point:	Non-flammable
Autoignition temperature:	No data available
Danger of explosion:	No data available
Flammable limits:	
Lower:	No data available
Upper:	No data available
Evaporation rate:	No data available
Vapor pressure (mm Hg):	1 @ 975 C
Vapor density:	No data available
Specific gravity:	7.874 g/cm ³ @ 20 C
Bulk density:	No data available
Solubility in/Miscibility with water:	Insoluble
Partition coefficient n-octanol/water:	No data available

Viscosity: No data available
Other information: No additional information

10 Stability and reactivity

Reactivity: No data available
Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: In the form of powder or dust this product is an explosion hazard
Conditions to be avoided: Heat, open flames, sparks, ignition sources
See section 7 for information on proper handling and storage
Materials to be avoided: Strong oxidizers, halogens, phosphorous, oxygen
Moisture
Dangerous reactions: No dangerous reactions known
Hazardous decomposition products:
(thermal and other) Oxides of iron

11 Toxicological information

Acute toxicity:
LD/LC50 values that are relevant for classification: Intratracheal-rat LDLo: 450 mg/kg/15W-I:ETA
oral-child TDLo: 77 mg/kg: BAH, GIT, BLD
oral-rat LD₅₀: 30 g/kg
intraperitoneal-rabbit LDLo: 20 mg/kg
Irritation or corrosion of skin: No data available
Irritation or corrosion of eyes: No data available
Primary irritant or corrosive effect:
on the skin: May cause mild irritation
on the eye: May cause mild irritation
Sensitization: No sensitizing effect known
Potential health effects: No data available
Inhalation: May be harmful
Ingestion: May be harmful
Skin: May cause mild irritation
Eyes: May cause mild irritation
Signs and symptoms of exposure: Poison by intraperitoneal route. Questionable carcinogen with experiment tumorigenic data. Human systemic effects; irritability, nausea or vomiting, normocytic anemia. Iron is potentially toxic in all forms and by all routes of exposure. The inhalation of large amounts of iron dust results in iron pneumoconiosis (arc welder's lung). Chronic exposure to excess levels of iron (>50-100 mg Fe/day) can result in pathological deposition of iron in the body tissues, the symptoms of which are fibrosis of the pancreas, diabetes mellitus and liver cirrhosis.
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH
Additional information: To the best of our knowledge the acute and chronic toxicity of the substance is not fully known

12 Ecological information

Toxicity:
Toxicity to fish: No data available
Toxicity to daphnia and other aquatic invertebrates: No data available
Toxicity to algae: No data available
Persistence and degradability:
Biodegradability: No data available
Bioaccumulative potential: No data available
Bioaccumulation: No data available
Mobility in soil: No data available
Other adverse effects: No data available

13 Disposal considerations

Recommendation: Consult state, local or national regulation for proper disposal
Allow professional disposal company to handle waste
Must be specially treated under adherence to official regulations
Unclean packaging recommendation: Disposal must be made according to official regulations

14 Transport information

Land transport DOT

Proper shipping name: Chemicals Non-Hazardous
Technical name: Iron metal powder

Air transport ICAO-TI and IATA-DGR:

Proper shipping name: Chemicals Non-Hazardous
Technical name: Iron metal powder

UPS Ground / FedEx Ground

Proper shipping name: Chemicals Non-Hazardous
Technical name: Iron metal powder

UPS Air

Proper shipping name: Chemicals Non-Hazardous
Technical name: Iron metal powder

15 Regulatory information

SARA Section 302 Extremely Hazardous components and corresponding TPQs:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA Section 311 / 312 hazards:

No SARA Hazards

SARA Section 313 components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Proposition 65 components:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

TSCA:

This product is listed in the TSCA inventory

16 Other information

The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulation are subject to change and the conditions of handling and use, or misuse are beyond our control. NOAH MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.