

Product details

Safety Data Sheet

According to 29 CFR 1910.1200 (OSHA HCS)

SDS No. 1052 Review date September 11, 2015

1 Identification of substance and company

Iron metal powder, <75 microns Product name:

11593, 17001, 18327, 90990 Product code:

Recommended use of the chemical and

Research and product development restrictions on use: Manufacturer/Supplier: Noah Technologies Corporation 1 Noah Park

San Antonio, Texas 78249-3419 Phone: (210) 691-2000 Web site: www.noahtech.com

Emergency information: CHEMTREC

800-424-9300

2 Hazards identification

Signal Word: None Pictogram: None

Classification: Not a hazardous substance

Hazard statements: None Precautionary statements: None

HEALTH HMIS ratings (scale 0-4):

FLAMMABILITY PHYSICAL HAZARD

3 Composition/Information on ingredients

Chemical name: Iron metal powder, <75 microns

7439-89-6 Designation: (CAS#): EC Number: 231-096-4 Formula: Fe None identified Synonyms:

4 First aid measures

After inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Seek medical advice

After skin contact: Instantly wash with water and soap and rinse thoroughly

Seek medical advice

Rinse opened eye for at least 15 minutes under running water. Assure adequate flushing by separating After eye contact:

> the eyelids with fingers. Seek medical advice If conscious, rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical advice.

None identified

After swallowing:

Most important symptoms and effects, both

acute and delayed: Indication of any immediate medical attention

and special treatment needed: None identified

5 Fire-fighting measures

Suitable extinguishing agents: Special powder for metal fires, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use water.

Dust explosion hazard Special hazards arising from the chemical: Products of combustion or resulting gases: Oxides of iron

Wear self-contained breathing apparatus Protective equipment:

Wear fully protective fire fighting equipment/clothing in fire situations

Advice for firefighters: Do not use halogenated extinguisher

6 Accidental release measures

Person-related safety precautions: Wear personal protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Measures for environmental protection: Do not allow material to be released to the environment without proper governmental permits Measures for cleaning/collecting: Evacuate area. Shut off all sources of ignition. Avoid raising dust. Use non-sparking tools.

Ventilate and wash spill site after material removal is complete

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 container closed.

Keep away from heat, sparks and open flames.

Use explosive proof equipment Store under inert atmosphere conditions

Information about protection against

explosions and fires:

Dust explosion hazard

Storage requirements to be met by storerooms

and containers:

Keep away from heat, sparks, and open flames. Keep container tightly closed.

Information about storage in one common

storage facility:

Do not store with strong oxidizers

Further information about storage conditions:

Store under dry conditions. Moisture sensitive.

Keep container tightly sealed

Store in cool, dry conditions in well sealed containers

8 Exposure controls/personal protection

Additional information about design of

technical systems:

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:

This material does not contain any relevant quantities of materials with critical values that have to be monitored

at the workplace.

Additional information: No data

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

Respiratory protection: Use suitable respirator when high concentrations are present. Use respirators and components tested and

approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Use a respirator with type N95 (USA) or PE (EN143) cartridges as a backup to engineering controls.

 Hand protection:
 Impervious gloves

 Eye protection:
 Safety glasses

 Skin protection:
 Protective work clothing

 Additional protective equipment:
 Sufficient to prevent contact

Emergency eyewash and safety shower

9 Physical and chemical properties

General Information:

Physical state:

Color:
Dark grey
Smell:
Odorless
Molecular Weight (Calculated):
pH (5% solution)
Melting point/range:
Boilling point/range:
2750 C
Sublimation temperature/start:
Not determined
Flash point:
Not determined

Sublimation temperature/start: Not determined Not determined Flash point: Autoignition temperature: Not determined Decomposition temperature: Not determined Flammability (solid, gas) Not determined Danger of explosion: Not determined Flammable limits: Not determined Lower: Not determined Upper: Not determined Vapor pressure (mm Hg): 1 mm @ 1787 C Density at 20 °C 7.874 g/cm3 Solubility in/Miscibility with water at 15 °C Insoluble

10 Stability and reactivity

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 oxides and acids

Oxygen, halogens, and phosphorus. Moisture and air sensitive.

Dangerous reactions: Dust explosion hazard

Hazardous decomposition products: Oxides of iron

11 Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for

classification: oral-rat LD₅₀: 30,000 mg/kg

Primary irritant effect:

on the skin: Mild irritation on the eye: Mild irritation
Sensitization: None

Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP,

OSHA or ACGIH

Additional information: Human effects: irritability, nausea or vomiting, diarrhea, pink urine, black stool, normocytic anemia, liver damage. 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. 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.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known

12 Ecological information

Toxicity

Aquatic toxicity: No ecological information available

Persistence and degradability: No further relevant information available

Behavior in environmental systems: Bioaccumulative potential:

Bioaccumulative potential:

Mobility in soil:

No further relevant information available

No further relevant information available

Additional ecological information:

General notes: Do not allow material to be released to the environment without proper governmental permits

Avoid transfer into the environment

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

SARA 311/312 Hazards:

None
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 Prop. 65 components: This product does not contain any chemicals known to State of California to cause cancer, birth defects or any

other reproductive harm

TSCA: This material is listed on 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.