



## Safety Data Sheet

According to 29 CFR 1910.1200 (OSHA HCS)

SDS No. 780

Review date: April 27, 2019

### 1 Identification of substance and company

#### Product details

**Product name:** *Iron (III) hydroxide, slurry*  
**Product code:** 11177  
**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

**Emergency information:** CHEMTREC  
800-424-9300

### 2 Hazards identification

**Hazard designation:** None  
**GHS Classification:** No identified GHS hazards  
**Information pertaining to particular dangers for man and environment:** Not applicable  
**HMIS ratings (scale 0-4):**  
Health: 0  
Flammability: 0  
Physical hazard: 0

### 3 Composition/Information on ingredients

**Chemical name:** Iron (III) hydroxide, slurry  
**Designation: (CAS#):** 1309-33-7  
**EC Number:** 215-176-6  
**Formula:**  $\text{Fe}(\text{OH})_3$  10 - 15 wt%  
**Molecular weight:** 106.87  
**Synonyms:** Ferric hydroxide

### 4 First aid measures

**After inhalation:** Seek immediate medical advice  
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**After skin contact:** Instantly wash with water and soap and rinse thoroughly  
If irritation persists, consult a physician

**After eye contact:** Rinse opened eye for at least 15 minutes under running water. Assure adequate flushing by separating the eyelids with fingers. Consult a physician.

**After ingestion:** If conscious, rinse mouth out with water and seek medical attention

**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 in dehydrated powder form

### 5 Fire-fighting measures

**Suitable extinguishing agents:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**Special hazards caused by the material, its products of combustion or resulting gases:** In case of fire, the following can be released:  
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:** Not applicable

### 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

<b>Measures for cleaning/collecting:</b>	Dispose of contaminated material as waste according to item 13 Place in a suitable container for proper disposal Ventilate and wash spill site after material removal is complete
<b>Additional information:</b>	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

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

### 8 Exposure controls/personal protection

<b>Ventilation requirements:</b>	Use with adequate ventilation
<b>Components with critical values that require monitoring at the workplace:</b>	None
<b>Additional information:</b>	None
<b>Personal protective equipment:</b>	
<b>General protective and hygienic measures:</b>	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
<b>Personal protective equipment:</b>	
<b>Respiratory protection:</b> (Use only NIOSH or CEN approved Equipment)	Use suitable respirator when high concentrations are present or mist or dust may be generated Use only NIOSH/MESA or CEN approved dust mask type N95 or TYPE P1 (EN 143)
<b>Hand protection:</b>	Impervious gloves
<b>Eye protection:</b>	Safety glasses
<b>Skin protection:</b>	Protective work clothing
<b>Additional protective equipment:</b>	Sufficient to prevent contact Emergency eyewash and safety shower
<b>Precautionary labeling:</b>	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

### 9 Physical and chemical properties

<b>General Information:</b>	
<b>Physical state:</b>	Slurry
<b>Color:</b>	Reddish brown
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	No data available
<b>Molecular Weight (Calculated):</b>	106.87
<b>pH (5% solution)</b>	No data available
<b>Melting point/freezing point/range:</b>	< 0 °C
<b>Boiling point/range:</b>	> 100 °C
<b>Sublimation temperature/start:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Flammability (solid, gas):</b>	
<b>Flash point:</b>	Non-flammable
<b>Autoignition temperature:</b>	No data available
<b>Danger of explosion:</b>	No data available
<b>Flammable limits:</b>	
<b>Lower:</b>	No data available
<b>Upper:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Vapor pressure (mm Hg):</b>	No data available
<b>Vapor density:</b>	No data available
<b>Specific gravity:</b>	1.2 (13 wt%)

<b>Bulk density:</b>	No data available
<b>Solubility in/Miscibility with water:</b>	Insoluble
<b>Partition coefficient n-octanol/water:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Other information:</b>	No additional information

#### 10 Stability and reactivity

<b>Reactivity:</b>	No data available
<b>Chemical stability:</b>	Stable
<b>Possibility of hazardous reactions:</b>	No data available
<b>Conditions to be avoided:</b>	No decomposition if used and stored according to specifications See section 7 for information on proper handling and storage
<b>Materials to be avoided:</b>	Strong oxidizers Strong acids
<b>Dangerous reactions:</b>	No dangerous reactions known
<b>Hazardous decomposition products: (thermal and other)</b>	Oxides of iron

#### 11 Toxicological information

<b>Acute toxicity:</b>	
<b>LD/LC50 values that are relevant for classification:</b>	No data available
<b>Irritation or corrosion of skin:</b>	No data available
<b>Irritation or corrosion of eyes:</b>	No data available
<b>Primary irritant or corrosive effect: on the skin:</b>	May cause mild irritation
<b>on the eye:</b>	May cause mild irritation
<b>Sensitization:</b>	No sensitizing effect known
<b>Potential health effects:</b>	No data available
<b>Inhalation:</b>	May be harmful
<b>Ingestion:</b>	May be harmful
<b>Skin:</b>	May cause mild irritation
<b>Eyes:</b>	May cause mild irritation
<b>Signs and symptoms of exposure:</b>	Chronic exposure to excess levels of iron can result in pathological deposition of iron in the body tissues. Symptoms of this may include fibrosis of the pancreas, diabetes mellitus, and cirrhosis of the liver. To the best of our knowledge the acute and chronic toxicity of the substance is not fully known
<b>Carcinogenicity:</b>	No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH

#### 12 Ecological information

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

#### 13 Disposal considerations

<b>Recommendation:</b>	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
<b>Unclean packaging recommendation:</b>	Disposal must be made according to official regulations

#### 14 Transport information

##### Land transport DOT

<b>Proper shipping name:</b>	Chemicals Non-Hazardous
<b>Technical name:</b>	Iron (III) hydroxide, slurry

##### Air transport ICAO-TI and IATA-DGR:

<b>Proper shipping name:</b>	Chemicals Non-Hazardous
<b>Technical name:</b>	Iron (III) hydroxide, slurry

**UPS Ground / FedEx Ground**

**Proper shipping name:** Chemicals Non-Hazardous  
**Technical name:** Iron (III) hydroxide, slurry

**UPS Air**

**Proper shipping name:** Chemicals Non-Hazardous  
**Technical name:** Iron (III) hydroxide, slurry

**15 Regulatory information**

**SARA Section 302 Extremely Hazardous components and corresponding TPQs:** Not subject to reporting requirements  
**SARA Section 311 / 312 hazards:** Not subject to reporting requirements  
**SARA Section 313 components:** Not subject to reporting requirements  
**California Proposition 65 components:** Not subject to reporting requirements  
**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.