

# **SAFETY DATA SHEET**

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Iron Oxyhydroxide Nanowires A50, Research Grade

Catalog Number: NovaWire-FeOOH-50

Formula: FeOOH

Diameter: ~ 50 nm Length: ~ 10 um

Supplier: Novarials Corporation

800 W Cummings Park, Suite 4600

Woburn, MA 01801

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#### 2. HAZARDS IDENTIFICATION

Not a hazardous substance or mixture.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Ferric hydroxide oxide

Formula: FeOOH

Component		Concentration
Ferric hydroxide oxide		
CAS-No.	20344-49-4	
EC-No.	234-746-4	

## 4. FIRST AID MEASURES

#### General advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

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

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

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

#### 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### **Hazardous combustion products**

Hazardous decomposition products formed under fire conditions – Iron Oxides

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Evacuate personnel to safe areas. Avoid breathing dust.

### **Environmental precautions**

Not required.

## Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

#### Conditions for safe storage

Keep container tightly closed in a cool, dry and well-ventilated place.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

## Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

## **Eye/Face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Body protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Control of environmental exposure

Not required.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

## **APPEARANCE**

Form powder Color yellow

Safety data

pΗ no data available Melting point/freezing point no data available **Boiling point** no data available Flash point no data available Ignition temperature no data available Auto ignition temperature no data available Lower explosion limit no data available Upper explosion limit no data available Vapour pressure no data available Density no data available Water solubility no data available Partition coefficient: no data available n-octanol/water Relative vapour density no data available Odour no data available Odour Threshold no data available no data available Evaporation rate

#### 10. STABILITY AND REACTIVITY

### Reactivity

no data available

## **Chemical stability**

Stable under recommended storage conditions.

## Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

#### Materials to avoid

Strong oxidizing agents.

#### Hazardous decomposition products

Other decomposition products -no data available

### 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

no data available

### Skin corrosion/irritation

no data available

## Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

no data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by ACGIH.

### Reproductive toxicity

no data available

## Specific target organ toxicity -single exposure (Globally Harmonized System)

no data available

### Specific target organ toxicity -repeated exposure (Globally Harmonized System)

no data available

### **Aspiration hazard**

no data available

#### 12. ECOLOGICAL INFORMATION

#### **Toxicity**

no data available

#### Persistence and degradability

no data available

## **Bioaccumulative potential**

no data available

#### Mobility in soil

no data available

#### PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### Other adverse effects

no data available

### 13. DISPOSAL CONSIDERATIONS

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

### Contaminated packaging

#### 14. TRANSPORT INFORMATION

## DOT (US), IMDG, IATA

Not a dangerous goods.

#### 15. REGULATORY INFORMATION

### **SARA 302 Components**

not required

## **SARA 313 Components**

not required

#### SARA 311/312 Hazards

No SARA Hazards.

## **Massachusetts Right To Know Components**

not required

## Pennsylvania Right To Know Components

Iron hydroxide oxide hydrate CAS-No. 20344-49-4

## **New Jersey Right To Know Components**

Iron hydroxide oxide hydrate CAS-No. 20344-49-4

### California Prop. 65 Components

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

#### 16. DISCLAIMER

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