

A Group Company of MITSUBISHI  
CHEMICAL**GELEST YELLOW IRON OXIDE SF****Safety Data Sheet YIA-SFA**

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Version: 1.1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

|                               |   |
|-------------------------------|---|
| Product form                  | : Substance   |
| Physical state                | : Solid   |
| Substance name                | : GELEST YELLOW IRON OXIDE SF   |
| Product code                  | : YIA-SFA   |
| Synonyms                      | : YELLOW IRON OXIDE, C.I. PIGMENT YELLOW 42, C.I. 77492<br>IRON OXIDE, [3-(N-ACETYLHYDROXYPROLYL)PROPYL]TRIETHOXSILANE          |
| Other means of identification | : INCI NAME: IRON OXIDES, ACETYL HYDROXYPROLYLPROPYLTRIETHOXSILANE;<br>IRON OXIDES, TRIETHOXSILYLPROPYL ACETYL HYDROXYPROLINATE |

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

|                              |  |
|------------------------------|--|
| Use of the substance/mixture | : Pigment<br>Cosmetics, personal care products |
|------------------------------|--|

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet****GELEST, INC.**11 East Steel Road  
Morrisville, PA 19067**USA**

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

[info@gelest.com](mailto:info@gelest.com) - [www.gelest.com](http://www.gelest.com)**GELEST INC.**Fritz-Klatte-Strasse 8  
65933 Frankfurt**Germany**

T +49 (0) 69 3535106-500 - F +49 (0) 69 3535106-501 - (M-F): 8:00 AM - 4:00 PM

[info@gelestde.com](mailto:info@gelestde.com) - [www.gelest.com](http://www.gelest.com)**1.4. Emergency telephone number**

|                  |   |
|------------------|---|
| Emergency number | : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International) |
|------------------|---|

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

|                |  |
|----------------|--|
| EUH-statements | : EUH210 - Safety data sheet available on request. |
|----------------|--|

**Labelling according to Directive 67/548/EEC or 1999/45/EC**

No labelling applicable

**2.3. Other hazards**Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

# GELEST YELLOW IRON OXIDE SF

## Safety Data Sheet

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

|                |                               |
|----------------|-------------------------------|
| Substance type | : Multi-constituent           |
| Name           | : GELEST YELLOW IRON OXIDE SF |
| CAS-No.        | : 51274-00-1 (&) N/A          |
| EC-No.         | : 257-098-5 (&) N/A           |

| Name   | Product identifier                         | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|---------|---|
| Iron oxide yellow                                | (CAS-No.) 51274-00-1<br>(EC-No.) 257-098-5 | 98 – 99 | Not classified  |
| [3-(N-acetylhydroxypropyl)propyl]triethoxysilane | (CAS-No.) not found<br>(EC-No.) not found  | 1 – 2   | Eye Irrit. 2, H319  |

Full text of H-statements: see section 16

#### 3.2. Mixtures

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label. |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.  |
| First-aid measures after skin contact | : Wash with plenty of water/.... Get medical advice/attention.   |
| First-aid measures after eye contact  | : Immediately flush eyes thoroughly with water for at least 15 minutes. Get medical advice/attention.  |
| First-aid measures after ingestion    | : Never give anything by mouth to an unconscious person. Get medical advice/attention.   |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after inhalation   | : Inhalation of dust or particulates may irritate the respiratory tract.   |
| Symptoms/effects after skin contact | : No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of skin exposure. |
| Symptoms/effects after eye contact  | : No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of eye exposure.  |
| Symptoms/effects after ingestion    | : No information available.  |
| Chronic symptoms                    | : Prolonged inhalation of iron oxide dust is known to produce a condition known as siderosis, a benign pneumoconosis.          |

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                              |   |
|------------------------------|---|
| Suitable extinguishing media | : This product is not combustible or flammable. Use extinguishing agents that are suitable to the surrounding fire. |
|------------------------------|---|

#### 5.2. Special hazards arising from the substance or mixture

#### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust. |
|--------------------------------|--|

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

|                      |  |
|----------------------|--|
| Protective equipment | : Wear protective equipment as described in Section 8. |
| Emergency procedures | : Evacuate unnecessary personnel.                      |

# GELEST YELLOW IRON OXIDE SF

## Safety Data Sheet

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Minimise generation of dust. Use any suitable mechanical means (vacuum, sweeping etc.). Provide ventilation system and use necessary personal protective equipment as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION". Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid dust formation. Avoid contact with moisture. Do not breathe dust. Provide local exhaust or general room ventilation to minimize exposure to dust. In case of insufficient ventilation, wear suitable respiratory protection.

Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store dry at ambient temperature away from food and beverages, excessive heat or flame sources. Store away from substances subject to catalytic decomposition by dust.

Storage area : Store away from heat.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Appropriate engineering controls:

Provide local exhaust or general room ventilation.

#### Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

#### Hand protection:

Neoprene or nitrile rubber gloves

#### Eye protection:

Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Powder.

Colour : Yellow.

# GELEST YELLOW IRON OXIDE SF

## Safety Data Sheet

|   |                                       |
|---|---------------------------------------|
| Odour   | : Slight. characteristic.             |
| Odour threshold                                 | : No data available                   |
| Refractive index                                | : No additional information available |
| pH  | : No data available                   |
| Relative evaporation rate (butylacetate=1)      | : No data available                   |
| Melting point                                   | : > 1000 °C                           |
| Freezing point                                  | : No data available                   |
| Boiling point                                   | : No data available                   |
| Flash point                                     | : No data available                   |
| Auto-ignition temperature                       | : No data available                   |
| Decomposition temperature                       | : No data available                   |
| Flammability (solid, gas)                       | : No data available                   |
| Vapour pressure                                 | : No data available                   |
| Relative vapour density at 20 °C                | : No data available                   |
| Relative density                                | : 4.05                                |
| Solubility                                      | : Insoluble in water.                 |
| Partition coefficient n-octanol/water (Log Pow) | : No data available                   |
| Partition coefficient n-octanol/water (Log Kow) | : No data available                   |
| Viscosity, kinematic                            | : No data available                   |
| Viscosity, dynamic                              | : No data available                   |
| Explosive properties                            | : No data available                   |
| Oxidising properties                            | : No data available                   |
| Explosive limits                                | : No data available                   |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

This product is stable under the normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

At temperatures greater than 180 oC, the Yellow Iron Oxide portion will convert to Iron Oxide Red.

### 10.4. Conditions to avoid

Heat. Open flame. Sparks.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Does not decompose.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### Iron oxide yellow (51274-00-1)

|               |               |
|---------------|---------------|
| LD50 oral rat | > 10000 mg/kg |
|---------------|---------------|

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

# GELEST YELLOW IRON OXIDE SF

## Safety Data Sheet

|   |  |
|---|--|
| Aspiration hazard                                   | : Not classified   |
| Potential adverse human health effects and symptoms | : This product contains no substances classified as hazardous to health or environment. Excessive exposure to airborne dust may reduce visibility and or cause unpleasant deposits. Not a hazard if inhaled in normal industrial use. As with all dusty materials, inhalation may cause respiratory irritation, sneezing, coughing and runny nose. |
| Symptoms/effects after inhalation                   | : Inhalation of dust or particulates may irritate the respiratory tract.   |
| Symptoms/effects after skin contact                 | : No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of skin exposure.   |
| Symptoms/effects after eye contact                  | : No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of eye exposure.  |
| Symptoms/effects after ingestion                    | : No information available.  |
| Chronic symptoms                                    | : Prolonged inhalation of iron oxide dust is known to produce a condition known as siderosis, a benign pneumoconiosis.   |

### SECTION 12: Ecological information

#### 12.1. Toxicity

|   |                  |
|---|------------------|
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|  |   |
|--|---|
| Sewage disposal recommendations            | : Do not dispose of waste into sewer.   |
| Product/Packaging disposal recommendations | : Dry material can be landfilled. Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials                  | : Avoid release to the environment.   |

### SECTION 14: Transport information

#### 14.1. UN number

In accordance with ADR / IMDG / IATA / ADN / RID

#### 14.1. UN number

|               |                  |
|---------------|------------------|
| UN-No. (ADR)  | : Not applicable |
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN)  | : Not applicable |
| UN-No. (RID)  | : Not applicable |

#### 14.2. UN proper shipping name

|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (ADR)  | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN)  | : Not applicable |
| Proper Shipping Name (RID)  | : Not applicable |

#### 14.3. Transport hazard class(es)

##### ADR

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (ADR) | : Not applicable |
|----------------------------------|------------------|

# GELEST YELLOW IRON OXIDE SF

## Safety Data Sheet

### IMDG

Transport hazard class(es) (IMDG) : Not applicable

### IATA

Transport hazard class(es) (IATA) : Not applicable

### ADN

Transport hazard class(es) (ADN) : Not applicable

### RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport

Not applicable

#### - Inland waterway transport

Not applicable

#### - Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

GELEST YELLOW IRON OXIDE SF is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

GELEST YELLOW IRON OXIDE SF is not on the REACH Candidate List

GELEST YELLOW IRON OXIDE SF is not on the REACH Annex XIV List

GELEST YELLOW IRON OXIDE SF is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

#### 15.1.2. National regulations

#### Germany

# GELEST YELLOW IRON OXIDE SF

## Safety Data Sheet

|  |   |
|--|---|
| Regulatory reference                       | : Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV) |
| Hazardous Incident Ordinance (12. BImSchV) | : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)  |

### Netherlands

|  |                               |
|--|-------------------------------|
| SZW-lijst van kankerverwekkende stoffen              | : The substance is not listed |
| SZW-lijst van mutagene stoffen                       | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen – Borstvoeding   | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen – Vruchtbaarheid | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling   | : The substance is not listed |

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Abbreviations and acronyms:

|  |  |
|--|--|
|  | Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor |
|--|--|

Other information : Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

|              |   |
|--------------|---|
| EUH210       | Safety data sheet available on request.       |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H319         | Causes serious eye irritation.                |

SDS EU (REACH Annex II) - Custom

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

*The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.*

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