



GELEST YELLOW IRON OXIDE SF

Safety Data Sheet YIA-SFA

Date of issue: 05/02/2017

Version: 1.0

SECTION 1: Identification

1.1. Identification

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

1.2. Recommended use and restrictions on use

Recommended use : Pigment
 Cosmetics, personal care products

1.3. Supplier

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 - www.gelest.com

1.4. Emergency telephone number

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

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Hazards not otherwise classified (HNOC)

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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

| Name | Product identifier | % | GHS-US classification |
|--|----------------------|---------|-----------------------|
| Iron Oxide Yellow | (CAS-No.) 51274-00-1 | 98 - 99 | Not classified |
| [3-(N-acetylhydroxypropyl)propyl]triethoxysilane | (CAS-No.) not found | 1 - 2 | Eye Irrit. 2A, H319 |

Full text of hazard classes and 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 victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
 First-aid measures after skin contact : Wash with plenty of soap and water. Get medical advice/attention.

GELEST YELLOW IRON OXIDE SF

Safety Data Sheet

- 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 (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 pneumoconiosis.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

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

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

- 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.

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 : Minimize 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 Heading 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

GELEST YELLOW IRON OXIDE SF

Safety Data Sheet

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

8.3. Individual protection measures/Personal protective equipment

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. |
| Color | : Yellow. |
| Odor | : Slight. Characteristic. |
| Odor threshold | : No data available |
| Refractive index | : No data available |
| pH | : No data available |
| Relative evaporation rate (butyl acetate=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 |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : 4.05 |
| Solubility | : Insoluble in water. |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosion 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.

GELEST YELLOW IRON OXIDE SF

Safety Data Sheet

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 sensitization | : 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 |
| Specific target organ toxicity – single exposure | : Not classified |
| Specific target organ toxicity – repeated exposure | : Not classified |
| 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 pneumoconosis. |

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

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. Other adverse effects

Effect on the ozone layer : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal 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.

GELEST YELLOW IRON OXIDE SF

Safety Data Sheet

SECTION 14: Transport information

14.1. UN number

Not regulated for transport.

14.2. UN proper shipping name

Not applicable

14.3. Additional information

Other information : No supplementary information available.

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

GELEST YELLOW IRON OXIDE SF (51274-00-1 (& N/A)

TSCA Exemption/Exclusion

This substance is excluded from U.S. TSCA notification requirements according to 40 CFR 720.30(a).

Iron Oxide Yellow (51274-00-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

[3-(N-acetylhydroxypropyl)propyl]triethoxysilane (not found)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Iron Oxide Yellow (51274-00-1)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification

Uncontrolled product according to WHMIS classification criteria

EU-Regulations

Iron Oxide Yellow (51274-00-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Iron Oxide Yellow (51274-00-1)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases::

H319

Causes serious eye irritation

GELEST YELLOW IRON OXIDE SF

Safety Data Sheet

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.

Hazard Rating

Health : 0 Minimal Hazard - No significant risk to health
Flammability : 0 Minimal Hazard - Materials that will not burn
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Prepared by safety and environmental affairs.

Date of issue: 05/02/2017 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

© 2019 Gelest Inc. Morrisville, PA 19067

A large, light blue watermark of the Gelest logo is centered on the page. The logo consists of the word "Gelest" in a stylized, rounded font, with a blue triangle pointing to the right behind the letters.