

Safety Data Sheet RIA-SSA

Date of issue: 12/03/2014 Revision date: 07/27/2018 Version: 3.0

SECTION 1: Identification

1.1. Identification

Product name : GELEST RED IRON OXIDE SS

Product code : RIA-SSA
Product form : Substance
Physical state : Solid

Synonyms : C.I. PIGMENT RED 101, OCTADECYLTRIETHOXYSILANE; C.I. PIGMENT RED 101,

TRIETHOXYOCTADECYLSILANE

Other means of identification : INCI NAME: IRON OXIDES, STEARYL TRIETHOXYSILANE

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 RED IRON OXIDE SS CAS-No. : 1309-37-1 (&) 7399-00-0

Name	Product identifier	%	GHS-US classification
Iron oxide (Fe2O3)	(CAS-No.) 1309-37-1	98 - 99	Not classified
Stearyl Triethoxysilane	(CAS-No.) 7399-00-0	1 - 2	Skin Irrit. 2, H315 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.

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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. Overexposure may cause:

Coughing.

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 : May cause eye irritation.
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. 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 : Non-combustible. Use an extinguishing agent suitable for 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

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed

containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

6.2. Environmental precautions

Prevent entry to sewers and 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 : Provide local exhaust or general room ventilation to minimize exposure to dust. Do not breathe

dust. Avoid contact with skin and eyes.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Keep in a clean and dry area in original unopened containers.

Incompatible materials : Oxidizing agent. Iron oxides react violently with aluminum, ethylene oxide, hydrazine, and

calcium hypochlorite.

Storage area : Store away from heat.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Iron oxide (Fe2O3) (1309-37-1)		
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³ (respirable fraction)

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Iron oxide (Fe2O3) (1309-37-1)			
OSHA PEL (TWA) (mg/m³)		10 mg/m³ (fume) 15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)	
IDLH	US IDLH (mg/m³)	2500 mg/m³ (dust and fume)	
NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m³ (dust and fume)	

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.

Red to Reddish Brown. Color Slight. Characteristic. Odor Odor threshold No data available Refractive index No data available No data available рΗ : No data available Relative evaporation rate (butyl acetate=1) No data available Melting point : No data available Freezing point : No data available Boiling point : No data available Flash point No data available Auto-ignition temperature Decomposition temperature : No data available : No data available Flammability (solid, gas) Vapor pressure No data available

Specific gravity / density : 4.8 - 5.2

: Insoluble in water. Solubility Log Pow : No data available : No data available Log Kow 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

Relative vapor density at 20 °C

Relative density

No additional information available

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: No data available: No data available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Oxidizing agent. Iron oxides react violently with aluminum, ethylene oxide, hydrazine, and calcium hypochlorite.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Iron oxide (Fe2O3) (1309-37-1)	
LD50 oral rat	> 5000 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

Iron oxid	de (Fe2O3) (1309-37-1)		
IARC gro	oup	3 - Not classifiable	
Reproduct	tive toxicity	: Not classified	

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated : Not classified

exposure

Aspiration hazard : Not classified

Symptoms/effects after inhalation : Inhalation of dust or particulates may irritate the respiratory tract. Overexposure may cause:

Coughing.

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: May cause eye irritation.

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

Iron oxide (Fe2O3) (1309-37-1)	
LC50 fish 1	> 1000 mg/l 48 hours: Leuciscus idus (Golden orfe)

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

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SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to licensed waste disposal facility.

Ecology - waste materials : Avoid release to the environment.

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

Stearyl Triethoxysilane (7399-00-0)

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

Iron oxide (Fe2O3) (1309-37-1)

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

15.2. International regulations

CANADA

No additional information available

Iron oxide (Fe2O3) (1309-37-1)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

EU-Regulations

Stearyl Triethoxysilane (7399-00-0)

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

Iron oxide (Fe2O3) (1309-37-1)

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

National regulations

Stearyl Triethoxysilane (7399-00-0)

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

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

Iron oxide (Fe2O3) (1309-37-1)

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 the Canadian IDL (Ingredient Disclosure List)

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

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Iron oxide (Fe2O3) (1309-37-1)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Full text of H-phrases::

H315	Causes skin irritation
H319	Causes serious eye irritation

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.: Chemcial 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 : 1 Slight Hazard - Irritation or minor reversible injury possible

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: 12/03/2014 Revision date: 07/27/2018 Version: 3.0

SDS US (GHS HazCom 2012) - Custom

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

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