

Safety Data Sheet BIB-HSA

Issue date: 09/07/2021 Version: 1.0

#### **SECTION 1: Identification**

1.1. Identification

Product name : GELEST BLACK IRON OXIDE HS

Product code : BIB-HSA
Product form : Substance
Physical state : Solid

Synonyms : C.I. PIGMENT BLACK 11, CARBOXYETHYLSILANETRIOL, SODIUM SALT
Other means of identification : INCI NAME: IRON OXIDES, DISODIUM CARBOXYETHYL SILICONATE

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)

# 2.4. Unknown acute toxicity (GHS US)

# **SECTION 3: Composition/Information on ingredients**

3.1. Substances

Substance type : Multi-constituent

Name : GELEST BLACK IRON OXIDE HS

CAS-No. : 1317-61-9

Name	Product identifier	%	GHS US classification
Iron Oxide (Fe3O4)	(CAS-No.) 1317-61-9	98 – 99	Not classified
Carboxyethylsilanetriol, disodium salt	(CAS-No.) 18191-40-7	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.

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First-aid measures after skin contact : Wash with plenty of soap and 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 (acute and delayed)

Symptoms/effects after inhalation : Inhalation causes coughing, sneezing and respiratory problems.

Symptoms/effects after skin contact : Skin contact may cause irritation due to mechanical action on sensitive skin. Symptoms/effects after eye contact : Eye contact causes irritation due to mechanical action and secretion of tears.

Symptoms/effects after ingestion : Ingestion may cause stomach ache, vomiting and diarrhoea.

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

## 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. Sweep or shovel spills into appropriate container for disposal.

Provide ventilation system and use necessary personal protective equipment as described in

"8. EXPOSURE CONTROLS AND PERSONAL PROTECTION".

#### 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. Avoid contact

with skin and eyes. Do not breathe dust.

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 (Fe3O4) (1317-61-	9)	
ACGIH	ACGIH OEL TWA	10 mg/m³ Total Inhalable Dust

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### 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:

Odor

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.

Slight. Characteristic.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Powder.
Color : Black.

Odor threshold No data available Refractive index No data available No data available Relative evaporation rate (butyl acetate=1) No data available Melting point No data available No data available Freezing point **Boiling point** No data available No data available Flash point 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 : No data available

Density : 4.8 – 5.1

Solubility Insoluble in water. Partition coefficient n-octanol/water (Log Pow) : No data available : No data available Partition coefficient n-octanol/water (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

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

This product is not stable if stored at temperatures above 140° F (60° C). Storage temperatures above 140° F (60° C) may cause the black iron oxide to oxidize, generating heat which could cause surrounding combustibles to burn.

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## 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Excessive heat.

## 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

: Not classified Acute toxicity (oral) Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified 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

This product contains a component that is not classifiable as to its carcinogenicity based on its

IARC, ACGIH, NTP, or EPA classification.

Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Symptoms/effects after inhalation : Inhalation causes coughing, sneezing and respiratory problems.

Symptoms/effects after skin contact : Skin contact may cause irritation due to mechanical action on sensitive skin.

Symptoms/effects after eye contact : Eye contact causes irritation due to mechanical action and secretion of tears.

Symptoms/effects after ingestion : Ingestion may cause stomach ache, vomiting and diarrhoea.

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 (Fe3O4) (1317-61-9)	
LC50 - Fish [1]	> 1000 mg/l (48 h) Idus Idus dorata, Fish

# 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 : Dispose of contents/container to licensed waste disposal facility.

Ecology - waste materials : Avoid release to the environment.

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# **SECTION 14: Transport information**

#### 14.1. UN number

Not regulated for transport.

#### 14.2. UN proper shipping name

#### 14.3. Additional information

Other information

: No supplementary information available.

#### Transport by sea

Air transport

# **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

## Iron Oxide (Fe3O4) (1317-61-9)

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

#### Carboxyethylsilanetriol, disodium salt (18191-40-7)

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

## 15.2. International regulations

## CANADA

#### Iron Oxide (Fe3O4) (1317-61-9)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

## **EU-Regulations**

# Iron Oxide (Fe3O4) (1317-61-9)

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

## **National regulations**

# Iron Oxide (Fe3O4) (1317-61-9)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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 KECL/KECI (Korean Existing Chemicals Inventory)

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::

paccen	
H315	Causes skin irritation
H319	Causes serious eye irritation

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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.

Issue date: 09/07/2021 Version: 1.0

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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