

Safety Data Sheet BIB-HSA

Issue date: 07/09/2021 Version: 1.0

SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Solid
Substance name	: GELEST BLACK IRON OXIDE HS
Product code	: BIB-HSA
Synonyms	: C.I. PIGMENT BLACK 11, CARBOXYETHYLSILANETRIOL, SODIUM SALT
Other means of identification	: INCI NAME: IRON OXIDES, DISODIUM CARBOXYETHYL SILICONATE
1.2. Relevant identified uses of the subs	tance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Pigment 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
11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 / info@gelest.com - www.gelest.com GELEST INC. Fritz-Klatte-Strasse 8 65933 Frankfurt Germany T +49 (0) 69 3535106-500 - F +49 (0) 69 3535100 info@gelestde.com - www.gelestde.com 1.4. Emergency telephone number	6-501 - (M-F): 8:00 AM - 4:00 PM
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazards identification	
2.1. Classification of the substance or m	ixture
Classification according to Regulation (EC) N Not classified	o. 1272/2008 [CLP]
Adverse physicochemical, human health and No additional information available	environmental effects
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

2.3. Other hazards

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SECTION 3: Composition/information on ingredients

3.1. Substances	
Substance type	: Multi-constituent
Name	: GELEST BLACK IRON OXIDE HS
CAS-No.	: 1317-61-9
EC-No.	: 215-277-5

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Iron oxide (Fe3O4)	(CAS-No.) 1317-61-9 (EC-No.) 215-277-5	98 – 99	Not classified
Carboxyethylsilanetriol, disodium salt	(CAS-No.) 18191-40-7	1 – 2	Skin Irrit. 2, H315 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 eff	ects, both 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. Indication of any immediate media	al attention and special treatment needed				
No additional information available					
SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing media	: Non-combustible. Use an extinguishing agent suitable for the surrounding fire.				
5.2. Special hazards arising from the substance or mixture					
5.3. Advice for firefighters					
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.					

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6.3. Methods and material for containmen	t and cleaning up			
	 Minimise 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 p	rotection.			
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			
Storage area	calcium hypochlorite. Store away from heat.			
7.3. Specific end use(s)				
No additional information available				
SECTION 8: Exposure controls/perso	nal protection			
8.1. Control parameters				
Iron oxide (Fe3O4) (1317-61-9)				
Italy - Portugal - USA ACGIH ACGIH OEL TW	A 10 mg/m ³ Total Inhalable Dust			
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 pr	operties			
9.1. Information on basic physical and che				
Physical state	: Solid			
Appearance	Powder.			
Colour	: Black.			
Odour	· Slight abayestaristic			
	Slight. characteristic.			
Odour threshold	No data available			

pH : No data available Relative evaporation rate (butylacetate=1) : No data available

: No data available

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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 °	: No data available	;
Relative density	: No data available	;
Density	: 4.8 – 5.1	
Solubility	: Insoluble in water	r.
Partition coefficient n-octanol/w	ater (Log Pow) : No data available	;
Partition coefficient n-octanol/w	ater (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		

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.

10.3.	Possibility of hazardous reactions		
No addi	tional information available		
10.4.	Conditions to avoid		
Excess	ive heat.		
10.5.	Incompatible materials		
Oxidizir	ng agent. Iron oxides react violently with aluminum, ethyl	ene oxide, hydrazine, and calcium hypochlorite.	
10.6.	Hazardous decomposition products		
No addi	tional information available		
SECT	ION 11: Toxicological information		
11.1.	Information on toxicological effects		

Acute toxicity	: Not classified
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
	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.

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SECTION 12: Ecological informatic	on		
12.1. Toxicity			
Hazardous to the aquatic environment, short-	: Not classified		
term (acute)	N 1 1 1 1 1		
Hazardous to the aquatic environment, long- term (chronic)	: Not classified		
Iron oxide (Fe3O4) (1317-61-9)			
LC50 - Fish [1]	> 1000 mg/l (48 h) Idus lo	us 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. Results of PBT and vPvB assessm	ient		
No additional information available			
12.6. Other adverse effects			
SECTION 13: Disposal consideration	ons		
13.1. Waste treatment methods			
Sewage disposal recommendations	: Do not dispose of waste		
Product/Packaging disposal recommendations		iner to licensed waste disposal facility.	
Ecology - waste materials	: Avoid release to the envi	onment.	
SECTION 14: Transport information	า		
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) Proper Shipping Name (ADN)	: Not applicable : Not applicable		
Proper Shipping Name (RID)	: Not applicable		
14.3. Transport hazard class(es)	· · · · · · · · · · · · · · · · · · ·		
ADR			
Transport hazard class(es) (ADR)	: Not applicable		
IMDG			
Transport hazard class(es) (IMDG)	: Not applicable		
	N 1 1 1		
Transport hazard class(es) (IATA)	: Not applicable		
ADN			
ADN Transport hazard class(es) (ADN)	: Not applicable		
Hanoport hazard blass(cs) (ADIN)	. Not applicable		
RID			
Transport hazard class(es) (RID)	: Not applicable		
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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

-	Overlan	d tran	sport

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

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

GELEST BLACK IRON OXIDE HS is not on the REACH Candidate List

GELEST BLACK IRON OXIDE HS is not on the REACH Annex XIV List

GELEST BLACK IRON OXIDE HS 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.

GELEST BLACK IRON OXIDE HS 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

15.1.2. National regulations

1	Drivet distant 07/00/0004				0/7
	SZW-lijst van reprotoxische stoffen – Ontwikkeling	:	The substance is not listed		
	SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	:	The substance is not listed		
	SZW-lijst van reprotoxische stoffen – Borstvoeding	:	The substance is not listed		
	SZW-lijst van mutagene stoffen		The substance is not listed		
	SZW-lijst van kankerverwekkende stoffen		The substance is not listed		
	Netherlands				
	Hazardous Incident Ordinance (12. BImSchV)	:	Is not subject of the 12. BlmSchV (H	lazardous Incident Ordinance)	
	Regulatory reference	:	WGK nwg, Non-hazardous to water 751)	(Classification according to VwVwS, Annex 1 or 2; I	D No.
	Germany				

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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.: 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

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
H315	Causes skin irritation.
H319	Causes serious eye irritation.
Skin Irrit. 2	Skin corrosion/irritation, Category 2

SDS EU (REACH Annex II) - Custom

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