

Safety Data Sheet WIA-HSA Issue date: 03/12/2014 Revision date: 29/09/2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Version: 2.1

1.1. Product identifier	
Product form	: Substance
Physical state	: Solid
Substance name	: GELEST TITANIUM DIOXIDE HS
Product code	: WIA-HSA
Synonyms	: C.I. PIGMENT WHITE 6, CARBOXYETHYLSILANETRIOL, SODIUM SALT
Other means of identification	: INCI NAME: TITANIUM DIOXIDE, DISODIUM CARBOXYETHYL SILICONATE
1.2. Relevant identified uses of the	substance or mixture and uses advised against
	substance of mixture and uses advised against
1.2.1. Relevant identified uses	Pierre est
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 sa	fety data sheet
GELEST, INC.	
11 East Steel Road	
Morrisville, PA 19067 USA	
T 215-547-1015 - F 215-547-2484 - (M-F): 8	3:00 AM - 5:30 PM EST
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 35	35106-501 - (M-F): 8:00 AM - 4:00 PM
info@gelestde.com - www.gelest.com	
1.4. Emergency telephone number	
T.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazards identification	on second
2.1. Classification of the substance	or mixture
Classification according to Regulation (E Not classified	C) No. 1272/2008 [CLP]
Adverse physicochemical, human health	and environmental effects
No additional information available	
2.2. Label elements	
Labelling according to Regulation (EC) N	lo 1272/2008 [CLP]
EUH-statements	: EUH210 - Safety data sheet available on request.
	EUH212 - Warning! Hazardous respirable dust may be formed when used. Do not breathe
	dust.
2.3. Other hazards	
Other hazards which do not result in	: The titanium dioxide, used in Gelest surface-treated titanium dioxide products has been teste
classification	using standard EU dust test methods (EN 15051-2 and EN 15051-3); results received from or raw material supplier confirm that it does not contain 1% or more of particles with aerodynami diameter \leq 10 µm, and therefore, will not be classified as a CMR substance per Commission
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Delegated Regulation (EU) 2020/217.

SECTION 3: Composition	/information on ingredients
3.1. Substances	
Substance type	: Multi-constituent
Name	: GELEST TITANIUM DIOXIDE HS
CAS-No.	: 13463-67-7
EC-No.	: 236-675-5

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Titanium Dioxide	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5	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/
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: Direct contact with eyes is likely to be irritating.
Symptoms/effects after ingestion	: May cause gastrointestinal irritation.
Chronic symptoms	: Possible respiratory damage following repeated or prolonged inhalation.
4.3. Indication of any immediate media	cal 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.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the s	substance or mixture
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release me	asures
	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
0	
6.1.2. For emergency responders	Environte environte de la constante de la const
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 materi	al for containment and clean	ing 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.		cessary personal protective equipment as described in	
6.4. Reference to other s	ections		
See Heading 8. Exposure contr	ols and personal protection.		
SECTION 7: Handling a	nd storage		
7.1. Precautions for safe	handling		
Precautions for safe handling		ocal exhaust or general room and eyes. Do not breathe du	ventilation to minimize exposure to dust. Avoid contact st.
Hygiene measures			with mild soap and water before eating, drinking or h contaminated clothing before reuse.
7.2. Conditions for safe	storage, including any incon	npatibilities	
Storage conditions	: Keep con	tainer tightly closed. Keep in	a clean and dry area in original unopened containers.
7.3. Specific end use(s)			
No additional information availa	ble		
SECTION 8: Exposure c	ontrols/personal prote	ction	
8.1. Control parameters			
offit offition parametero			
GELEST TITANIUM DIOXIDE	HS (13463-67-7)		
Ireland	OEL STEL		30 mg/m ³ (calculated-total inhalable dust) 12 mg/m ³ (calculated-respirable dust)
Titanium Dioxide (13463-67-	7)		
Austria	MAK (OEL TWA)		5 mg/m ³ (alveolar dust, respirable fraction)
Austria	MAK (OEL STEL)		10 mg/m ³ (alveolar dust, respirable fraction)
Belgium	OEL TWA		10 mg/m ³
Bulgaria	OEL TWA		10 mg/m ³ (respirable dust)
France	VME (OEL TWA)		10 mg/m ³
Greece	OEL TWA		10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction)

		4 mg/m ³ (respirable)
United Kingdom	WEL STEL (OEL STEL)	30 mg/m³ (calculated-total inhalable) 12 mg/m³ (calculated-respirable)
Denmark	OEL TWA [1]	6 mg/m ³
Ireland	OEL TWA [1]	10 mg/m ³ (total inhalable dust) 4 mg/m ³ (respirable dust)
Ireland	OEL STEL	30 mg/m ³ (calculated-total inhalable dust) 12 mg/m ³ (calculated-respirable dust)
Lithuania	IPRV (OEL TWA)	5 mg/m ³
Norway	Grenseverdi (OEL TWA) [1]	5 mg/m ³
Norway	Korttidsverdi (OEL STEL)	5 mg/m ³
Poland	NDS (OEL TWA)	10 mg/m ³ (<2% free crystalline silica and containing no asbestos-inhalable fraction)
Romania	OEL TWA	10 mg/m ³
Romania	OEL STEL	15 mg/m³
Sweden	NGV (OEL TWA)	5 mg/m ³ (total dust)
Canada (Quebec)	VEMP (OEL TWA)	10 mg/m³ (containing no Asbestos and <1% Crystalline silica-total dust)

Italy - Portugal - USA ACGIH

Latvia

Spain

USA IDLH

USA OSHA

Switzerland

United Kingdom

ACGIH OEL TWA

OSHA PEL TWA [1]

MAK (OEL TWA) [1]

VLA-ED (OEL TWA) [1]

WEL TWA (OEL TWA) [1]

OEL TWA

IDLH

10 mg/m³

10 mg/m³

10 mg/m³

5000 mg/m³

15 mg/m³ (total dust)

3 mg/m³ (respirable dust)

10 mg/m³ (total inhalable)

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Titanium Dioxide (13463-67-7)		
Australia	OES TWA [1]	10 mg/m³ (containing no asbestos and <1% crystalline silica-inhalable dust)
Portugal	OEL TWA	10 mg/m ³
Portugal	OEL chemical category	A4 - Not Classifiable as a Human Carcinogen

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

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 o	chemical properties
Physical state	: Solid
Appearance	: Powder.
Colour	: White.
Odour	: Slight. characteristic.
Odour threshold	: No data available
Refractive index	: No additional information available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: > 1800 °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	: 3.9
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	

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SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
The product is stable at normal handling and sto	orage conditions.	
10.3. Possibility of hazardous reactions		
No additional information available		
10.4. Conditions to avoid		
Avoid dust formation.		
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
No additional information available		
	tion	
SECTION 11: Toxicological informat 11.1. Information on toxicological effects		
11.1. Information on toxicological effects Acute toxicity	s : Not classified	
Titanium Dioxide (13463-67-7)		
LD50 oral rat	> 10000 mg/kg	
Skin corrosion/irritation Serious eye damage/irritation	: Not classified : Not classified	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified.	
	In 2006, the International Agency for Research of Cancer (IARC) classified titanium dioxide	
	"possibly carcinogenic" to humans (Group 2B). The IARC Working Group concluded there sufficient evidence in experimental animals for the carcinogencity of titanium dioxide, howe	e was
	IARC found little evidence of an increased risk for cancer among humans based on	ver,
	epidemiological study data.	
Titanium Dioxide (13463-67-7)		
IARC group	2B - Possibly carcinogenic to humans	
Reproductive toxicity	Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified.	
Aspiration hazard	: Not classified	
Symptoms/effects after inhalation	: May cause respiratory irritation.	
Symptoms/effects after skin contact	: May cause skin irritation.	
Symptoms/effects after eye contact	: Direct contact with eyes is likely to be irritating.	
Symptoms/effects after ingestion	: May cause gastrointestinal irritation.	
Chronic symptoms	: Possible respiratory damage following repeated or prolonged inhalation.	
SECTION 12: Ecological information		
12.1. Toxicity		
Hazardous to the aquatic environment, short- term (acute)	: Not classified	
Hazardous to the aquatic environment, long-	: Not classified	
term (chronic)		
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 assessme	ent	
No additional information available		
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12.6. Other adverse effects	
SECTION 13: Disposal consideration	ans
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dry material can be landfilled. Dispose of contents/container to licensed waste disposal facility.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	n
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
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
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

No data available

- Transport by sea

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- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

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 TITANIUM DIOXIDE HS is not on the REACH Candidate List

GELEST TITANIUM DIOXIDE HS is not on the REACH Annex XIV List

GELEST TITANIUM DIOXIDE 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 TITANIUM DIOXIDE 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

Germany	
Regulatory reference	: WGK nwg, Non-hazardous to water (KBwS-Beschluss; ID No. 1345)
Hazardous Incident Ordinance (12. BlmSchV)	: 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
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
	Pregnant/breastfeeding women working with the product must not be in direct contact with the product
	The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

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.

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Full text of H- and EUH-s	atements:
EUH210	Safety data sheet available on request.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
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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