

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Date of issue: 01/29/2024 Revision date: 01/29/2024 Version: 1.0

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

#### 1.1. Product identifier

Product form : Substance
Substance name : Titanium Dioxide
Grade Name : GTA100
EC-No. : 236-675-5
CAS-No. : 13463-67-7

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Pigments

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Only representative Chemical Inspection and Regulation Service Limited

Address Regus Harcourt Centre, Block 4, Co. Dublin, D02 HW77, Ireland

E-mail info@cirs-reach.com

Supplier G & J Resources Inc.

Address Unit 502, 7300 Warden Ave; Toronto, ON, Canada L3R 9Z6

Postal Code L3R 9Z6

Phone +1 (905) 604-7008 FAX +1 (905) 604-7009

E-mail info@gandjresources.com

### 1.4. Emergency telephone number

Emergency number : +1 (905) 604-7008

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP] The substance is not classified, according to the Globally Harmonized System (GHS).

### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

None known.

# SECTION 3: Composition/information on ingredients

### 3.1. Substances

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Titanium dioxide	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5	≥92.0%	Not classified

#### 3.2. Mixtures

Not applicable

#### SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : In case of doubt or persistent symptoms, consult always a physician.

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 : Gently wash with plenty of soap and water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Never give anything by mouth to an unconscious person. Get medical

advice/attention if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing agent suitable for surrounding fire.

Unsuitable extinguishing media : No information available.

#### 5.2. Special hazards arising from the substance or mixture

Product is inert, non flammbale and non combustible

### 5.3. Advice for firefighters

Precautionary measures fire : Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting : Wear recommended personal protective equipment. Do not attempt to take action without

suitable protective equipment. Self-contained breathing apparatus.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation, especially in confined areas. Avoid dust formation. Wear suitable

protective clothing.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Do not allow run-off from fire fighting to enter drains or water courses.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Avoid dust formation. Clean up immediately by sweeping or vacuum.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

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# SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Wear personal protective equipment. Take precautionary measures against static discharge. Avoid dust formation. Handle in accordance with good industrial hygiene and safety practice.

Hygiene measures

: Do not eat, drink or smoke when using this product. Always wash hands after handling the

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Prevent moisture contact. Keep container tightly closed and in well ventilated place.

#### 7.3. Specific end use(s)

No information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Titanium dioxide (13463-67-7)			
Austria	MAK (mg/m³)	5 mg/m³ (alveolar dust, respirable fraction)	
Austria	MAK Short time value (mg/m³) 10 mg/m³ (alveolar dust, respirab		
Belgium	Limit value (mg/m³)	10 mg/m <sup>3</sup>	
Bulgaria	OEL TWA (mg/m³)	10 mg/m³ (respirable dust)	
Croatia	atia GVI (granična vrijednost izloženosti) (mg/m³) 10 mg/m³ (total dust) 4 mg/m³ (respirable dust)		
Denmark	Grænseværdie (langvarig) (mg/m³)	6 mg/m³	
Estonia	OEL TWA (mg/m³)	5 mg/m³	
France	VME (mg/m³)	10 mg/m³	
Greece	OEL TWA (mg/m³)	10 mg/m³ (inhalable fraction) 5 mg/m³ (respirable fraction)	
Ireland	OEL (8 hours ref) (mg/m³)	10 mg/m³ (total inhalable dust) 4 mg/m³ (respirable dust)	
Ireland	OEL (15 min ref) (mg/m3)	30 mg/m³ (calculated-total inhalable dust) 12 mg/m³ (calculated-respirable dust)	
Latvia	OEL TWA (mg/m³)	10 mg/m³	
Lithuania	IPRV (mg/m³)	5 mg/m³	
Poland	NDS (mg/m³)	10 mg/m³ (<2% free crystalline silica and containing no asbestos-inhalable fraction)	
Portugal	OEL TWA (mg/m³)	10 mg/m³	
Romania OEL TWA (mg/m³) 10 mg/m³		10 mg/m³	
Romania	OEL STEL (mg/m³)	15 mg/m³	
Spain	n VLA-ED (mg/m³) 10 mg/m³		
Sweden	nivågränsvärde (NVG) (mg/m³)	5 mg/m³ (total dust)	
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ (total inhalable) 4 mg/m³ (respirable)	
United Kingdom	WEL STEL (mg/m³)	30 mg/m³ (calculated-total inhalable) 12 mg/m³ (calculated-respirable)	
Russian Federation	OEL TWA (mg/m³)	10 mg/m³ (aerosol)	
Norway	Grenseverdier (AN) (mg/m³)	5 mg/m³	
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	10 mg/m³ (value calculated)	
Switzerland	MAK (mg/m³)	3 mg/m³ (respirable dust)	
Australia	TWA (mg/m³)	10 mg/m³ (containing no asbestos and <1% crystalline silica-inhalable dust)	
Canada (Quebec)	VEMP (mg/m³)	10 mg/m³ (containing no Asbestos and <1% Crystalline silica-total dust)	
USA - ACGIH	ACGIH TWA (mg/m³)	ACGIH TWA (mg/m³) 10 mg/m³	
USA - IDLH	US IDLH (mg/m³)	5000 mg/m³	
USA - OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust)	

Titanium dioxide (13463-67-7)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	10 mg/m³

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Titanium dioxide (13463-67-7)		
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	700 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.127 mg/l	
PNEC aqua (marine water)	1 mg/l	
PNEC aqua (intermittent release)	0.61 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	1000 mg/kg dwt	
PNEC sediment (marine water)	100 mg/kg dwt	
PNEC (Soil)		
PNEC soil	100 mg/kg dwt	
PNEC (Oral)		
PNEC oral (secondary poisoning)	1667 mg/kg food	
PNEC (STP)		
PNEC sewage treatment plant	100 mg/l	

### 8.2. Exposure controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

# Environmental exposure controls:

Avoid release to the environment.

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

 Appearance
 : Powder

 Shape
 : Shapeless

 Color
 : White

 Odor
 : Odorless

 pH
 : 6.5 ~ 8.0

Boiling Point/ Spread : No data available Decomposition temperature : No data available Flash point : No data available Auto ignition temperature : No data available Explosion limit : No data available Vapor Pressure : No data available Vapor Density : No data available : 3.7 ~ 3.9g/cm3 Density

Solubility : A low solubility in the water, it can be dissolved in acid may also be dissolved in alkali

#### 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

# -10.2. Chemical stability

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Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Heat. flames or sparks. Ignition sources.

### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified : Not classified Acute toxicity (dermal) Acute toxicity (inhalation) : Not classified : Not irritating Skin corrosion/irritation Serious eye damage/irritation : Not irritating Respiratory or skin sensitisation : Not sensitizing Germ cell mutagenicity Not classified : Not classified Carcinogenicity Reproductive toxicity : Not classified : Not classified STOT-single exposure STOT-repeated exposure : Not classified Aspiration hazard : Not classified

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

#### 11.2.2. Other information

Potential adverse human health effects and symptoms

: No additional information available

# SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

Titanium dioxide (13463-67-7)	
LC50 fish	1000 ml/l (freshwater fish); 10000mg/l (marine water fish)
EC50 Daphnia 1	1000 mg/l (Daphnia magna)
EC50 Daphnia 2	10000 mg/l (Acartia tonsa)
EC50 72h algae (1)	61 mg/l (Pseudokirchnerella subcapitata )
EC50 72h algae (2)	10000 mg/l (Skeletonema costatum)

#### 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 assessment

Component		
Titanium dioxide (13463-67-7)	PBT: not relevant – no registration required	
, , ,	vPvB: not relevant – no registration required	

### 12.6. Endocrine disrupting properties

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

#### 12.7. Other adverse effects

No additional information available

# SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippii	ng name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### 14.6. Special precautions for user

# Overland transport

Not applicable

### - Transport by sea

Not applicable

#### - Air transport

Not applicable

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#### - Inland waterway transport

Not applicable

#### - Rail transport

Not applicable

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

#### 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

Titanium dioxide is not on the REACH Candidate List

Titanium dioxide is not on the REACH Annex XIV List

#### 15.1.2. National regulations

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

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

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

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

Listed on the Japanese ISHL (Industrial Safety and Health Law)

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 United States TSCA (Toxic Substances Control Act) inventory

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### Germany

VwVwS Annex reference : Water hazard class (WGK) nwg, Non-hazardous to water (KBwS-Beschluss; ID No. 1345)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Borstvoeding

: The substance is not listed
: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Vruchtbaarheid

. The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: The substance is not listed

#### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out

#### SECTION 16: Other information

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
EC50	Median effective concentration		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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