

# Safety Data Sheet

According to Regulation (EC) No 1907/2006, Annex II,

Amended by COMMISSION REGULATION (EU) 2020/878,

Amended by COMMISSION DELEGATED REGULATION (EU) 2023/707,

According to REGULATION (EC) No 1272/2008

Chloride Rutile Titanium Dioxide GTR720

Version 1.0

Issue date: 17-12-2024

Revision date: 23-04-2025

## Section 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

Identification on the label/Trade name: Chloride Rutile Titanium Dioxide GTR720

Additional identification: Nanoform is NOT covered by this SDS.

UFI: Not applicable.

Identification of the product: See section 3

Index Number: See section 3

REACH registration No.: 01-2119489379-17-xxxx

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

#### 1.2.1 Identified uses:

Coating Ink Leather paints plastics rubber.

#### 1.2.2 Uses advised against:

Not available.

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

Supplier(Only representative): Chemical Inspection and Regulation Service Limited

Supplier: G & J Resources Inc.

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

Contact person(E-mail): info@gandjresources.com

Telephone: +1 (905) 604-7008

Fax: +1 (905) 604-7009

### 1.4 Emergency telephone Number:

+1 (905) 604-7008 Only available during office hours (9:00a.m.-17:30p.m.)

Available outside office hours?

YES

☐

NO

X

## Section 2 Hazards identification

### 2.1 Classification of the substance or mixture:

#### 2.1.1 Classification of the mixture:

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

#### REGULATION (EC) No 1272/2008

Hazard classes/Hazard categories

Hazard codes

N/A

N/A

### 2.2 Label elements:

Hazard pictogram(s): No hazard pictogram is used.

Signal word: No signal word is used.

**Hazard statement(s):** Not applicable.  
**Precautionary statement(s):** Not applicable.  
**Supplemental Hazard information (EU)** Not applicable.

### 2.3 Other hazards:

The mixture does not contain PBT/vPvB substance.

The mixture does not contain endocrine disruptor.

## Section 3 Composition/information on ingredients

**Substance/Mixture:** Mixture

**Ingredient(s):**

Chemical Name	Registration No.	CAS No.	EC No.	Concentration	Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Titanium Dioxide	01-2119489379-17-0341	13463-67-7	236-675-5	90-100%	Not Classified	N/A
Aluminum oxide	01-2119529248-35-0483	1344-28-1	215-691-6	0-4.5%	Not Classified	N/A
Zirconium dioxide	01-2119486976-14-0124	1314-23-4	215-227-2	0-0.3%	Not Classified	N/A

## Section 4 First aid measures

### 4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

#### 4.1.1 In case of inhalation:

Move to a fresh air atmosphere. In case of persistent symptoms, consult a doctor.

#### 4.1.2 In case of skin contact:

Wash with soap and water.

#### 4.1.3 In case of eyes contact:

Rinse immediately with plenty of water. If irritation persists, seek medical attention.

#### 4.1.4 In case of ingestion:

No adverse health effects anticipated by this route, however, in the event of ingestion, increase intake of liquid in order to flush from the body. In case of persistent symptoms, consult a doctor. □

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

The product is not classified as harmful to human health effect.

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

Symptomatic treatment.

## Section 5 Firefighting measures

### 5.1 Extinguishing media:

**Suitable extinguishing media:** Use any media appropriate for combustible material in the area.

**Unsuitable extinguishing media:** Not available.

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

Product is inert, non-flammable and non-combustible.

### 5.3 Advice for firefighters:

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Wear chemical resistant oversuit. Cool containers / tanks with water spray.

## Section 6 Accidental release measures

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

**6.1.1 For non-emergency personnel:** Avoid generation of dust. Ensure adequate ventilation. Wear personal protective equipment.

**6.1.2 For emergency responders:** Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.

**6.2 Environmental precautions:** Prevent run-off from entering ground, storm sewers and ditches which lead to natural waterways.

**6.3 Methods and material for containment and cleaning up:** Use any feasible mechanical means (e.g. vacuum, sweeping) but avoid dusting during clean-up. The product can cause slippery conditions if wet. Even at low concentration, the product renders the discharge in liquid effluent highly visible.

**6.4 Reference to other sections:** See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

## Section 7 Handling and storage

### 7.1 Precautions for safe handling:

**7.1.1 Protective measures:** Avoid raising and breathing dust. Avoid raising dust. Handling systems and areas should be operated in such a way as to minimize exposure to dust. Local exhaust ventilation may be necessary. Handle minimizing dust. Take precautionary measures against static discharges.

**7.1.2 Advice on general occupational hygiene:** Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

**7.2 Conditions for safe storage, including any incompatibilities:** Pigments should not be stored in outside areas exposed to the weather. Care should be taken to avoid exposure to moisture. Incompatible materials: None.  
Packing material: Paper, Plastic.

**7.3 Specific end use(s):** Not available.

## Section 8 Exposure controls/personal protection

### 8.1 Control parameters:

#### 8.1.1 Occupational exposure limits:

Country	Substance	EC No.	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		
				ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	Notes
Ireland	Titanium Dioxide	236-675-5	13463-67-7	-	10 (1) 4 (2)	-	-	-
Ireland	Aluminum oxide	215-691-6	1344-28-1	-	10 (1) 4 (2)	-	-	-
Germany (DFG)	Zirconium dioxide	215-227-2	1314-23-4	-	0.3 (2) (3)	-	2.4 (2) (3)	-

Remarks:

(1) Inhalable fraction

(2) Respirable fraction

(3) Multiplied by the material density, except ultrafine particles

**8.1.2 Additional exposure limits under the conditions of use:** Not available.

**8.1.3 DNEL/DMEL and PNEC-Values:** Not available.

### 8.2 Exposure controls:

<b>8.2.1 Appropriate engineering controls:</b>	Use adequate ventilation to keep airborne concentrations low.
<b>8.2.2 Individual protection measures, such as personal protective equipment:</b>	
<b>Eye/face protection:</b>	The use of dustproof goggles or glasses with side protections is recommended if dust concentrations are likely to exceed the occupational exposure limit.
<b>Skin protection</b>	
<b>Hand protection:</b>	Prolonged exposure should be avoided by wearing suitable impervious protective gloves.
<b>Body protection:</b>	Respect main rules concerning the protection clothes for chemicals handling.
<b>Respiratory protection:</b>	A respirator must be used if the dust concentration is likely to exceed the occupational exposure limit. An approved dust respirator is recommended as appropriate depending on dust levels and other workplace factors.
<b>Thermal hazards:</b>	Wear suitable protective clothing to prevent heat.
<b>8.2.3 Environmental exposure controls:</b>	Avoid discharge into the environment. Dispose of rinse water in accordance with local and national regulations

## Section 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

<b>Physical state:</b>	Powder
<b>Colour:</b>	White
<b>Odour:</b>	Not available
<b>Odour threshold:</b>	Not available
<b>pH:</b>	6.5~8.5
<b>Melting point/freezing point (°C):</b>	1843 °C (CAS# 13463-67-7)
<b>Boiling point or initial boiling point and boiling range (°C):</b>	Ca. 3000 °C (CAS# 13463-67-7)
<b>Flash point (°C):</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Flammability limit - lower (%):</b>	Not available
<b>Flammability (gas, liquid, solid):</b>	Not available
<b>Ignition temperature (°C):</b>	Not available
<b>Lower and upper explosion limit:</b>	Not available
<b>Vapour pressure (20°C):</b>	Not available
<b>Relative vapour density:</b>	Not available
<b>Relative Density (g/cm³):</b>	3.9 g/cm³ (20°C) (CAS# 13463-67-7)
<b>Bulk density (kg/m³):</b>	Not available
<b>Solubility in water (g/l, 20°C):</b>	>= 0.024 <= 0.172 µg Ti/L (CAS# 13463-67-7)
<b>Solubility in other polar and non-polar solvents (g/l, 20°C):</b>	Insoluble in organic solvents (CAS# 13463-67-7)
<b>Partition coefficient n-octanol/water (log Po/w, 20°C):</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Kinematic viscosity (mm²/s):</b>	Not available
<b>Particle characteristics:</b>	Not available
<b>Explosive properties:</b>	Non-explosive
<b>Oxidising properties:</b>	No oxidizing properties

## 9.2. Other information:

Fat solubility(solvent– oil to be specified)	Not available
etc:	
Surface tension:	Not available
Dissociation constant in water( pKa):	Not available
Oxidation-reduction Potential:	Not available

## Section 10 Stability and Reactivity

10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Incompatible materials.
10.5 Incompatible materials:	Not available.
10.6 Hazardous decomposition products:	None known.

## Section 11 Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity:	
ATE <sub>mix</sub> (Oral):	Not available
ATE <sub>mix</sub> (Dermal):	Not available
ATE <sub>mix</sub> (Inhalation):	Not available
Titanium Dioxide (CAS# 13463-67-7)	
LD50(Oral, Rat):	> 5000 mg/kg bw
LD50(Dermal, Rabbit):	Not available
LC50(Inhalation, Rat):	> 3.43 mg/L, 4 h, male
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
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

### 11.2 Information on other hazards

Endocrine disrupting properties	The mixture does not contain endocrine disruptor.
Other information	Not applicable

## Section 12 Ecological information

### 12.1 Toxicity:

Titanium Dioxide (CAS# 13463-67-7)

Acute (short-term) toxicity:

LC50(96h, Fish):	Not available
EC50(48h, Crustacea):	> 100 mg/L
EC50(72h, Algae/aquatic plants):	> 100 mg/L

**Chronic (long-term) toxicity:**

NOEC(Fish): &gt;= 160 mg/L

NOEC(Crustacea): &gt;= 2.8 mg/L

NOEC(Algae/aquatic plants): &gt;= 100 mg/L

**12.2 Persistence and degradability:** Not available.**12.3 Bioaccumulative potential:** Not available.**12.4 Mobility in soil:** Not available.**12.5 Results of PBT and vPvB** The mixture does not contain PBT / vPvB substance.**assessment:****12.6 Endocrine disrupting properties:** The mixture does not contain endocrine disruptor.**12.7 Other adverse effects:** Not available.**12.8 Additional information** Not available.**Section 13 Disposal considerations****13.1 Waste treatment methods:** The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.**Section 14 Transport Information**

	<b>Land transport (ADR/RID)</b>	<b>Inland waterways (ADN)</b>	<b>Sea transport (IMDG)</b>	<b>Air transport (ICAO/IATA)</b>
<b>14.1 UN number or ID number</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2 UN proper shipping name</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4 Packing group</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5 Environmental hazards</b>	No	No	No	No
<b>14.6 Special precautions for user</b>	See section 2.2	See section 2.2	See section 2.2	See section 2.2
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not regulated	Not regulated	Not regulated	Not regulated

**Section 15 Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****Relevant information regarding authorization:** Not applicable.**Relevant information regarding restriction:** Not applicable.**Other EU regulations:** Employment restrictions concerning young person must be observed.  
For use only by technically qualified individuals.**Other National regulations:** Not applicable**15.2 Chemical Safety Assessment**YES ☐ NO ☒

## Section 16 Other information

### 16.1 Indication of changes:

Version 1.0 Amended by (EU) 2020/878, (EU) 2023/707

### 16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

UFI: Unique Formula Identifier

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration

DNEL: derived no-effect level

PNEC: predicted no-effect concentration

### 16.3 Key literature references and sources for data

ECHA Registered substances data

### 16.4 Training instructions:

Not applicable.

### 16.5 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

### 16.6 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.