

Centre Anti-Poison pour le Québec: (800) 463-5060 Tél. (Qc): (418) 660-8666 / 800-890-8666 Fax. (Qc): (418) 660-8998

#### SAFETY DATA SHEET

## **SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier			Product Use		
TITANIUM (IV) OXYDE (RUTILE)				Laboratory use	
Chemical formula				Product code	Molar weight
TiO <sub>2</sub>	TiO <sub>2</sub>			TR-0975	79,9
Chemical name / Commercial name / Synonymous TITANIUM (IV) OXIDE RUTILE, DIOXOTITANIUM, TITANIUM DIO			XIDE RUTILE,SAGEN	ITE	
Supplier's name			Address-Street		
Laboratoire MAT			610, Adanac Street		
City			Province		
Québec			Québec		
Postal code Internet		Phone number			
G1C 7B7 www.labmat.com		418-660-8666 / 800-890-8666			
Emergency phone CANUTEC: 613-996-6666		CENTRE ANTI-PO	DISON DU QUÉBEC 800-46	3-5060	
Date SDS SDS Prepared by		•	E-Mail		
9/7/2021 Laboratoire MA		<b>Δ</b> Τ	labmat@labmat.com		

### **SECTION 02 - HAZARDS IDENTIFICATION**

Classification WHIMS / GHS	Carcinogenicity category 2
Signal Word	WARNING
Hazards statements (H)	H351 Suspected of causing cancer.
Precautionary statements (P)	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection. P308 + P313 IF exposed or concerned: Get medical advice/attention. P405 Store locked up. P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.
PICTOGRAMS	
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	Health 1 Fire 0 Reactivity 0 Special danger

## **SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS**

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Oxyde de titane (IV)(rutlie) (#CAS Alternatif)	13463-67-7 1317-80-2	<=100

### **SECTION 04 - FIRST AID MEASURES**

Eye contact	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
Skin contact	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	If the person is conscious, rinse the mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.
	Main symptoms of high exposure: Irritatation of the respiratory system. Eyes irritation. Pulmonary fibrosis. Ref. section 11.
Immediate medical attention and special treatment, if necessary	In case of medical consultation, keep this sheet available.
General advice	Show this safety data sheet to the doctor in attendance.

#### **SECTION 05 - FIREFIGHTING MEASURES**

Flammability	No
Ignition conditions	Not flammable or combustible.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Hazardous combustion products	Hazardous combustion products formed under fire conditions: Titanium oxides.
Special fire and explosion hazards	May react violently with incompatible products (Ref Section 10).
	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

### **SECTION 06 - ACCIDENTAL RELEASE MEASURES**

Methods and materials for	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Pick
containment and cleaning up /	up with a shovel or broom, taking care not to scatter dust. Dispose of residues in a container provided for
Personnal precautions, protective	the disposal of hazardous materials. Do not let product enter drains.
equipment	

### **SECTION 07 - HANDLING AND STORAGE**

Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Store in cool place.
	Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with the skin, eyes and clothes. Avoid ingestion and inhalation. Avoid dust formation.

# **SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### Workplace control parameters

Components	CAS- No.	Control	Value	Basis
TITANIUM (IV) OXIDE RUTILE	131 <i>7</i> - 80-2	TLV, TWA, STEL	No data available	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TLV, TWA, STEL	No data available	Canada. British Columbia OEL
		TLV, TWA, STEL	No data available	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

Ventilation	Use fan.
Respiratory	If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
Gloves	Handle with gloves.
Eyes	Safety goggles with safety shutters.
Shoes	Safety shoes.
Clothing	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Engineering control	Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

## **SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	Solid.
Appearance	Poudre blanche.
Odour	inodore.
Odour threshold	Data not available
рН	Donnée non disponible
Melting point / Freezing point	1830-1850°C
Initial boiling point	2500-3000°C
Boiling range	Data not available
Flash point	Data not available
Evaporation rate	Data not available
Flammability	No
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	Data not available
Vapour density	Data not available
Relative density	4.23g/cm <sup>3</sup>
Solubility	Donnée non disponible.
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available

### **SECTION 10 - STABILITY AND REACTIVITY**

Reactivity	May react violently with incompatible substances.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	May react violently with incompatible substances.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Avoid contact with incompatible materials.
Incompatible material	Strong oxidizing agents, strong acids. Some metals. Aluminum. Calcium, magnesium, potassium, sodium. Lithium. Zinc.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Titanium oxide.

### **SECTION 11 - TOXICOLOGICAL INFORMATION**

### TITANIUM (IV) OXYDE (RUTILE)

Routes of exposure	Inhalation and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation.
- Skin	Irritation.
- Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Acute toxicity (Ingestion)	May be harmful if swallowed. To our knowledge, the product has not been fully studied.
Chronic exposure effects / symptoms	Is recognized as a possible carcinogen for humans (class 2B) by IARC. Prolonged or repeated exposure to this product can cause damage to the following organs: Chronic pulmonary fibrosis. Target organs: Respiratory system.
DL50 (specify species and route of entry)	LD50 Oral - Rat - > 10000 mg/kg LD50 Dermal - Rabbit - > 10000 mg/kg
CL50 (specify species and route of entry)	LC50 - Inhalation - >5.09 mg/L - 4 h

### **SECTION 12 - ECOLOGICAL INFORMATION**

Ecotoxicity	LC50 - Other fish: > 1,000 mg/l - 96 h LC50 - Daphnia magna (Water flea) - > 1000 mg/L - 48h.
Persistence and degradability	Insoluble in water.
Bioaccumulative potential	Data not available.
Mobility in soil	Is not likely mobile in the environment due its low water solubility.
Other adverse effects	May be harmful in the long term for aquatic organisms.

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

•	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

## **SECTION 14 - TRANSPORT INFORMATION**

UN Number	N/R
UN Proper shipping name	
Transport hazard class(es)	
Packing group	
Limited quantity index	
ERAP Index	
Special precautions	

#### **SECTION 15 - REGULATORY INFORMATION**

WHIMS CANADA	Carcinogenicity category 2
	Galaniagonan, Galagol, 2

#### **SECTION 16 - OTHER INFORMATION**

#### **Further information**

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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