

## SAFETY DATA SHEET SECTION 1. IDENTIFICATION GHS Product Identifier: Ruflux® 61 Milled Rutile, Ceramic Rutile Chemical Name: TiO2 - Rutile Recommended Applications: Used singularly or as a component in plastics, ceramics, welding or friction industries. Synonyms: Rutile, Rutile Titanium Dioxide Manufacturer Information: TAM Ceramics, LLC (#220821) 4511 Hyde Park Blvd Niagara Falls, NY 1430S Health Phone Number: 716-278-9400 Distributed by Fire Laguna Clay Company Website: www.tamceramics.com 14400 Lomitas Ave Reactivity 0 City of Industry, CA 91746 CHEMTREC 24 HOUR EMERGENCY TELEPHONE CHEMICAL EMERGENCY Personal x 1-800-4Laguna Protection DOMESTIC NORTH AMERICA 800-424-9300 Spill, Leak, Fire, Exposure info@lagunaclay.com HMIS or Accident www.lagunaclay.com SECTION 2. HAZARDS IDENTIFICATION GHS Pictogram: Signal word: WARNING GHS classification: Eye irritation, Category 2 Skin irritation, Category 2 Hazard Statement: Inert particles can be slightly, mechanically irritating to the eyes. Prolonged skin contact may cause skin irritation or dermatitis. Overexposure by inhalation may cause respiratory irritation. **Precautionary Statement:** Wash hands thoroughly after handling. Minimize exposure by wearing protective gloves, clothing, eye protection and respiratory masks. Have a clean change of works clothes readily available. Avoid dust formation and utilize good housekeeping practices. Route of Exposure: Eyes, skin, inhalation and ingestion. Potential Health Effects: Eve: May cause a slight irritation. Skin: May cause a slight irritation. Inhalation: Prolonged inhalation may cause respiratroy tract irritations. Ingestion: May irritate digestive tract if swallowed. SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS Components CAS-No EC Numbe Weight % OSHA ACGIH 1317-80-2 215-282-2 Rutile 95 - 99% 15 mg/m<sup>3</sup> TWA 10 mo/m<sup>3</sup> TWA 239-019-6 Zircon 149040-68-2 ~1% SECTION 4. FIRST AID MEASURES

Eye contact: Rinse eyes immediately with plenty of water on eye surfaces and under eyelids. Get medical attention if irritation develops. Skin contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician. inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, call a physician. Ingestion: Drink plenty of water. Consult a physician if necessary. Do not induce vomiting without medical advice. Notes to physician: Treat symptomatically..

Flash point: Non combustible.

Suitable extinguishing media: The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

SECTION 5. FIRE-FIGHTING MEASURES

Unusual hazards: None known

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid dust formation. Do not breathe vapors/dust. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods for cleaning up: Wear personal protective equipment. Use approved industrial vacuum cleaner for removal. Dispose of promptly.

SECTION 7. HAN	IDLING AND STORAGE
Handling: Handle in accordance with good industrial hygiene and safety practice. Use	
ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and cl	othing. Do not eat, drink, or smoke in areas of use or storage.
Storage: Keep in a dry, cool and well-ventilated place.	
	ITROLS / PERSONAL PROTECTION
Engineering measures: Provide appropriate exhaust ventilation at machinery and at p	
Respiratory protection: Use NIOSH approved respirator when ventilation is inadequa Hand protection: Impervious gloves.	
Skin and body protection: Lightweight protective clothing. Keep working clothes separate	arately. Remove and wash contaminated clothing before re-use.
Eye protection: Safety glasses with side-shields	
SECTION 9. PHYSICAL	AND CHEMICAL PROPERTIES
Color: Brown, reddish brown	Odor threshold: No Data Available
Odor: Odorless	Vapor pressure: No Data Available
Boiling point/range (°C): No data available	Flash point: No Data Available
Melting point/range (°C): 1560 - 1840 Vapor pressure (mmHg): No data available	Flammability (solid, gas): No Data Available Upper/lower flammability or explosive limits: No Data Available
Water solubility (mg/l): Insoluble	Vapor density: No Data Available
Physical state: Powder	Relative density: No Data Available
Molecular weight: No data available	Partition coefficient: n-octanol/water: No Data Available
pH: No data available	Auto-ignition temperature: No Data Available
Specific gravity (Water =1): 3.8 - 4.3	Decomposition temperature: No Data Available
Evaporation rate (Water =1): No data available	Viscosity: No Data Available
VOC content (%): No data available	BILITY AND REACTIVITY
Stability: Stable at normal conditions.	
Polymerization: Will not occur.	
Hazardous decomposition products: None under normal use.	
Materials to avoid: None known.	
Conditions to avoid: None known.	O OCAL MEDDUALDU
Acute toxicity: Information given is based on data on the components and the toxicol	OLOGICAL INFORMATION
	n dioxide particles have been shown to cause lung tumors at concentrations associated with
	ation. However, other laboratory animals such as mice and hamsters did not develop lung
tumors under similar testing with titanium dioxide. Human epidemiology studies do n	ot suggest an association between occupational exposure to titanium dioxide and risk for
cancer.	
Target Organ Effects: Titanium dioxide: Respiratory system.	· ·
Titanium Dioxide OSHA - Select Carcinogens: Listed	
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IARC - Group 2B: Listed	
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800-452-4862

info@lagunaclay.com

## For Industrial Use Only National Fire Protection Association (U.S.A.): Health: 1 Fire: 0 Physical Hazard: 0 PPE: X

Prepared by: Product Manufacturer, TAM Ceramics Group of NY, LLC

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

The information and recommendations contained in this Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the SDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.

Last Updated: Sept 2018

End of Safety Data Sheet

info@lagunaclay.com



4511 Hyde Park Blvd. Niagara Falls, NY 14305

ANALYSIS TO:				
LAGUNA CLAY COMPANY	· · · ·	-		
61020 LEYSHON DRIVE		•		
BYESVILLE, OH 43723			1	
MATERIAL DESCRIPTION:	Ceramic Rutile	LOT NO:	311734	
CUSTOMER PO NO:	83446	PRODUCT NO.:	1014084	
DATE OF SHIPMENT:	03/20/19	QUANTITY SHIPPED:	6,000 LBS	

## CERTIFICATE OF ANALYSIS/CERTIFICATE OF COMPARISON

This material has been analyzed in our Laboratory and the results are reported in this Certificate.

	TAM SPECIFICATIONS	ACTUAL
PROPERTIES	54 429 PS 136 E	RESULTS
CHEMICAL PROPERTIES		and the second secon
TiO2	94.0 minimum	95.5
ZrO2, %	1.5 maximum	0.8
SiO2, %	1.5 maximum	0.5
Fe2O3, %	1.6 maximum	0.5
Cr2O3, %	0.5 maximum	0.2
V2O5, %	1.0 maximum	0.7
Al2O3, %	1.0 maximum	<0.1
P, %	0.04 maximum	<0.01
<b>S</b> , %	0.04 maximum	<0.01
х. Х		
PHYSICAL PROPERTIES		
+325 Mesh, %	0.5 maximum	0.2
Magnetics, %	0.005	<0.001
Fisher Number, uM	Report	2.1

## TAM CERAMICS, LLC

Quality Department (716) 278-9428

SPECIAL INSTRUCTIONS					

800-452-4862

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info@lagunaclay.com