

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/m³ TWA 10 mo/m³ 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 | |
| - | |
| IARC - Group 2B: Listed | |
| IARC - Group 2B: Listed SECTION 12. ECC | |
| | |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available | |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP | OSAL CONSIDERATIONS |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w | |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. | OSAL CONSIDERATIONS. ith federal, state and local environmental control regulations. Where possible, recycling is |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. | OSAL CONSIDERATIONS |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. SECTION 14. TR4 | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. SECTION 14. TR/ DOT: | OSAL CONSIDERATIONS. ith federal, state and local environmental control regulations. Where possible, recycling is |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. SECTION 14. TR4 DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. SECTION 14. TR4 DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance way preferred to disposal or incineration. SECTION 14. TRADOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. SECTION 14. TR4 DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. SECTION 14. TR4 DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance we preferred to disposal or incineration. SECTION 14. TR4 DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance we preferred to disposal or incineration. SECTION 14. DISP Waste from residues / unused products: Waste must be disposed of in accordance we preferred to disposal or incineration. SECTION 14. TR4 DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and notification requirements, if any, are listed below. | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance we preferred to disposal or incineration. SECTION 14. TR4 DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and notification requirements, if any, are listed below. Titanium Dioxide | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance we preferred to disposal or incineration. SECTION 14. DISP Waste from residues / unused products: Waste must be disposed of in accordance we preferred to disposal or incineration. SECTION 14. TR4 DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and notification requirements, if any, are listed below. Titanium Dioxide NJRTK: sn 1861 | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance we preferred to disposal or incineration. SECTION 14. TR4 DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and notification requirements, if any, are listed below. Titanium Dioxide | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. SECTION 14. TR/ DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and notification requirements, if any, are listed below. Titanium Dioxide NJRTK: sn 1861 PARTK: Listed (NJRTK) Canadian WHMIS WHMIS hazard class: D2A Very toxic materials. | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. SECTION 14. TR/ DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and notification requirements, if any, are listed below. Titanium Dioxide NJRTK: Listed (NJRTK) Canadian WHMIS WHMIS hazard class: D2A Very toxic materials. International Inventories | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. SECTION 14. TR/ DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and notification requirements, if any, are listed below. Titanium Dioxide NJRTK: Listed (NJRTK) Canadian WHMIS WHMIS hazard class: D2A Very toxic materials. International inventories TSCA 8(b): All the ingredients are on the TSCA list. | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. SECTION 14. TR/ DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and notification requirements, if any, are listed below. Titanium Dioxide NJRTK: sn 1861 PARTK: Listed (NJRTK) Canadian WHMIS WHMIS hazard class: D2A Very toxic materials. International Inventories TSCA 8(b): All the ingredients are on the TSCA list. Canadian DSL: All the ingredients are on the DSL. | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. SECTION 14. TR/ DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and notification requirements, if any, are listed below. Titanium Dioxide NJRTK: sn 1861 PARTK: Listed (NJRTK) Canadian WHMIS WHMIS hazard class: D2A Very toxic materials. International Inventories TSCA 8(b): All the ingredients are on the TSCA list. Canadian DSL: All the ingredients are on the EINECS list. | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. SECTION 14. TR/ DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and notification requirements, if any, are listed below. Titanium Dioxide NJRTK: sn 1861 PARTK: Listed (NJRTK) Canadian WHMIS WHMIS hazard class: D2A Very toxic materials. International Inventories TSCA 8(b): All the ingredients are on the TSCA list. Canadian DSL: All the ingredients are on the DSL. | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. SECTION 14. TR/ DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and notification requirements, if any, are listed below. Titanium Dioxide NJRTK: sn 1861 PARTK: Listed (NJRTK) Canadian WHMIS WHMIS hazard class: D2A Very toxic materials. International Inventories TSCA 8(b): All the ingredients are on the TSCA list. Canadian DSL: All the ingredients are on the EINECS list. Philippines (PICCS): Listed. | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. DOT: Proper shipping name: Not regulated. DDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and notification requirements, if any, are listed below. Titanium Dioxide NJRTK: Sn 1861 PARTK: Listed (NJRTK) Canadian WHMIS WHMIS hazard class: D2A Very toxic materials. International Inventories TSCA 8(b): All the ingredients are on the TSCA list. Canadian DSL: All the ingredients are on the EINECS list. Philippines (PICCS): Listed. Japan (ENCS): Listed. Korea (KECL): Listed. China (IECS): Listed. | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. SECTION 14. TR/ DOT: Proper shipping name: Not regulated. TDG (Canada): Proper shipping name: Not regulated. SECTION 16. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and notification requirements, if any, are listed below. Titanium Dioxide NJRTK: sn 1861 PARTK: Listed (NJRTK) Canadian WHMIS WHMIS hazard class: D2A Very toxic materials. International Inventories TSCA 8(b): All the ingredients are on the TSCA list. Canadian DSL: All the ingredients are on the EINECS list. Philippines (PICCS): Listed. Japan (ENCS): Listed. Korea (KECL): Listed. | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. DOT: Proper shipping name: Not regulated. DDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and notification requirements, if any, are listed below. Titanium Dioxide NJRTK: Sn 1861 PARTK: Listed (NJRTK) Canadian WHMIS WHMIS hazard class: D2A Very toxic materials. International Inventories TSCA 8(b): All the ingredients are on the TSCA list. Canadian DSL: All the ingredients are on the EINECS list. Philippines (PICCS): Listed. Japan (ENCS): Listed. Korea (KECL): Listed. China (IECS): Listed. | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |
| SECTION 12. ECC Aquatic toxicity: No information available Persistence and degradability: No information available SECTION 13. DISP Waste from residues / unused products: Waste must be disposed of in accordance w preferred to disposal or incineration. DOT: Proper shipping name: Not regulated. DDG (Canada): Proper shipping name: Not regulated. SECTION 15. REG U.S. Regulations: Not subject to the provisions of SARA 313 Title III Not subject to TSCA 12(b) Export Notification State Regulations This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and notification requirements, if any, are listed below. Titanium Dioxide NJRTK: Sn 1861 PARTK: Listed (NJRTK) Canadian WHMIS WHMIS hazard class: D2A Very toxic materials. International Inventories TSCA 8(b): All the ingredients are on the TSCA list. Canadian DSL: All the ingredients are on the EINECS list. Philippines (PICCS): Listed. Japan (ENCS): Listed. Korea (KECL): Listed. China (IECS): Listed. | OSAL CONSIDERATIONS ith federal, state and local environmental control regulations. Where possible, recycling is INSPORT INFORMATION |

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 |
| S , % | 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

. .

info@lagunaclay.com