

# SAFETY DATA SHEET

Distributed by: Laguna Clay Company 14400 Lomitas Ave City of Industry, CA 91746 1-800-4Laguna info@lagunaclay.com www.lagunaclay.com



CHEMICAL NAME: COMMON/TRADE NAME:

Titanium Dioxide

Leucoxene, Rutile, Rutile "94", TiO<sub>2</sub>

#### **SECTION 1 - IDENTIFICATION**

Product Identifier Titanium Dioxide

Other Name(s) Leucoxene, Rutile, Rutile "94", TiO<sub>2</sub>

Recommended use Manufacturing and Welding

Restrictions for use Commercial use only, not for human consumption

Manufacturer Name Chemalloy Company LLC Telephone (610) 527-3700

**Address** PO Box 350 **Fax No.** (610) 527-3878

Bryn Mawr, PA 19010 Emergency Phone (800) 424-9300 (Chemtrec)

Contract No. CCN 4453

## SECTION 2 - HAZARD(S) IDENTIFICATION

Hazardous Classification Carcinogenicity (Category 1B)

per 29CFR 1910.1200 Specific target organ toxicity - single exposure (Category 3 - Respiratory Organs) (Rev. July 1, 2012) Specific target organ toxicity - repeated exposure (Category 2 - Respiratory)

100% of ingredients consists of unknown acute toxicity

Other Hazards not classified None Known

Signal Word DANGER



Hazard pictograms

Hazard Statements May cause cancer by inhalation.

May cause respiratory irritation

May cause damage to respiratory systems

**Precautionary Statements** 

Prevention Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Do Not breathe dust, fume, gas, mist, vapors or spray.

Use only in a well-ventilated area or outdoors.

**Response** If inhaled: Move person to fresh air and keep comfortable.

Seek medical advice/attention if feeling unwell, exposed or concerned.

**Storage** Store in a well-ventilated place in properly labelled, tightly sealed appropriate packaging.

Prohibit access to unauthorized use.

**Disposal** Dispose of contents/container in accordance with local, state and federal regulations.

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical Name</b>	Formula	CAS No.	Concentration
Titanium Dioxide	TiO <sub>2</sub>	13463-67-7	> 92 % and < 98 %
Silicon Dioxide	SiO <sub>2</sub>	14808-60-7	> 1 % and < 5 %
Zirconium Oxide	$ZrO_2$	1314-23-4	> 0.5 % and < 3 %

Common Names/Synonyms Leucoxene, Rutile, Rutile "94", TiO<sub>2</sub>

## **SECTION 4 - FIRST AID MEASURES**

In case of inhalation If inhaled: Move person to fresh air and keep comfortable.

Seek medical advice/attention if feeling unwell, exposed or concerned. If victim is not breathing, and if assistance is trained, administer CPR.

In case of skin contact If after contact, skin becomes irritated, remove contaminated clothes from victim.

Wash the contaminated area with plenty of warm water and soap (for 15 minutes). If symptoms persist, seek medical attention and report substance contacting skin.

Flush eyes immediately with plenty of flowing water for 15 minutes holding eyelids open. In case of eye contact

If symptoms persist, seek medical attention and report substance irritating eyes.

Obtain immediate medical attention and report substance ingested. Do not give an In case of ingestion

unconscious victim anything to eat or drink, or try to induce vomiting.

May cause irritation of the respiratory system Symptoms & Effects -acute

Symptoms & Effects -chronic Longtime overexposure may cause silicosis or cancer due to the silica content.

Immediate Medical Care Treat symptomatically.

#### SECTION 5 - FIREFIGHTING MEASURES

Extinguishing media Substance is not flammable or combustible, in case of fire use extinguishing media

appropriate for the surrounding environment (i.e. ABC dry chemical)

Special hazards arising

from substance or mixture

None Known

Special protective equipment & precautions Firefighters should wear full protective clothing and NIOSH approved self-contained breathing

apparatus.

for firefighters

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

For non-emergency personnel: keep unprotected people away, allow only well trained Personal precautions, protective equipment, and personnel wearing suitable protective clothing to respond to the incident.

emergency procedures For emergency responders: Avoid eye and skin contact; Do not inhale dust particles,

and avoid the formation of dust.

containment and clean-up

Methods and materials for Collect the spilled material in mechanical way, then place into a suitable, closed, properly labelled chemical waste container for disposal. During disposal wear suitable personal

protective equipment.

Environmental precautions Dispose of spillage and waste (product/packaging) in accordance with all applicable

environmental laws.

#### SECTION 7 - HANDLING AND STORAGE

Precautions for safe Observe conventional hygiene precautions, and after work hours, wash hands thoroughly.

> handling Avoid the direct contact with the product.

Do not eat or smoke in the workplace.

Ensure adequate ventilation and avoid formation of dust. Use Personal Protective Equipment as detailed in Section 8.

Emptied containers may contain residues of product, which may be hazardous.

Conditions for Safe Keep product dry in suitable packaging, properly labeled and away from acids. Storage, including Keep product away from food, beverages, luxury goods, feed, and pharmaceuticals.

any incompatibilities Follow all instructions on warning labels.

Precautions against No special measures are required, substance will not burn.

fire and explosion

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## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Limits**

Hazardous Component	CAS	NO. OSHA PEL	ACGIH TLV
Titanium Dioxide	13463-67-7	10.0 mg/M <sup>3</sup> TWA (Total Dust)	10.0 mg/M <sup>3</sup> TWA
Silicon Dioxide	14808-60-7	0.1 mg/M <sup>3</sup> TWA (Respirable Dust)	0.025 mg/M <sup>3</sup> TWA (Respirable Particles)
Zirconium Oxide	1314-23-4	5 mg/M³ TWA,	5 mg/M <sup>3</sup> TWA,
		10 mg/M³ STEL (as Zr)	10 mg/M <sup>3</sup> STEL (as Zr)

## **Personal Protection Requirements**

Respiratory: NIOSH approved respirators should be used when mechanical controls are not feasible.

Hand: Protective gloves are recommended for handling this material.

Eye: ANSI approved eye protection is recommended when handling this material.

Other/ Clothing: Appropriate work place clothing should be worn when handling this material.

Engineering Local exhaust/ventilation should be used when feasible to control dust levels below acceptable

Controls: occupational exposure limits.

PHYSICAL STATE/APPEARANCE	ODOR	ODOR THRESHOLD
black to brownish red powder	No odor	No data available
рН	MELTING PT	INITIAL BOILING PT
No data available	approx. 1649°C	No data available
FLASH PT	EVAPORATION RATE	FLAMMABILITY (solid, gas)
Not Applicable	Not Applicable	Non Flammable
UEL / LEL	VAPOR PRESSURE	VAPOR DENSITY
Not Applicable	Not Applicable	Not Applicable
SPECIFIC GRAVITY/RELATIVE DENSITY	SOLUBILITY (water)	PARTITION COEFFICIENT
4.3 to 5.0 (H <sub>2</sub> O=1)	Insoluble	Not Applicable
AUTO IGNITION TEMPERATURE	DECOMPOSITION TEMPERATURE	VISCOSITY
Not Applicable	No data available	Not Applicable

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

Reactivity None Known

Chemical Stability Stable at normal temperature & general work conditions

Possibility of Hazardous None Known

Reactions

Conditions to Avoid None Known
Incompatible Materials None Known
Hazardous Decomposition None known

Products

SECTION 11 -TOXICOLOGICAL INFORMATION					
ACUTE TOXICITY	LD <sub>50</sub> (inhalation-rat)		LD <sub>50</sub> (oral-rat)	ATE CALCULATIONS	
None Known	No Data Available		No Data Available	Not Applicable	
SKIN CORROSION/IRRITATION		SERIOUS EYE DAMAGE/EYE IRRITATION		SKIN SENSITIZATION	
None Known			None Known	None Known	
GERM CELL MUTAGENICITY		CARCINOGENICIT	Y (IARC, NTP, OSHA, ACGIH)	REPRODUCTIVE TOXICITY	
		Category 1E	3: ACGIH classifies SiO <sub>2</sub> as a		
None Known		suspe	ected human carcinogen	None Known	
STOT-SINGLE EXPOSURE		STOT-REPEATED EXPOSURE		ASPIRATION HAZARD	
Category 3 - Respira	tory	Cate	egory 2 - Respiratory	None Known	

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## SECTION 11 -TOXICOLOGICAL INFORMATION (cont.)

Likely Routes of Exposure Inhalation

Symptoms related to Physical, May cause irritation of the respiratory system

Chemical, Toxicological Characteristics

Immediate and Delayed effects from Longtime overexposure may cause silicosis or cancer due to the silica content.

short-term and long-term exposure

SECTION 12	2 - ECOLO	GICAL INFO	RMATION
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Persistence and Degradability No data available

Bioaccumulative potential No data available

Mobility in Soil No data available

Other Adverse Effects No data available

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

Handling for Disposal Handle in accordance with good industrial hygiene and safety practice. Refer to protective

measures listed in Sections 7 and 8.

Methods of Disposal Dispose of spillage and waste (product/packaging) in accordance with all local/regional

national/international regulations.

## **SECTION 14 -TRANSPORT INFORMATION**

Proper Shipping Name This material is not regulated by 49 CFR.

UN Number none Hazard Class none Packing Group none

#### SECTION 15 - REGULATORY INFORMATION

TSCA Information

This chemical appears on the Toxic Substances Control Act (TSCA) inventory.

SARA Title III: Sec 302 Extremely Hazardous Substances, 40 CFR355

There are no extremely hazardous substances present in this material.

SARA Title III: Sec 311 and 312, MSDS Requirements

This material is subject to the reporting requirements for this regulation. Threshold planning quantity: 10,000 lbs.

SARA Title III: Sec 313, Toxic Chemicals Notification

This material is not subject to the annual reporting requirements for this regulation.

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

#### Revision History 05/26/2015 - SDS formatted to 16-part GHS format, Supersedes 10/01/2012 MSDS revision

NOTE: The data contained in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information herein is based on technical data that Chemalloy believes to be reliable. It is intended to be used by persons with technical skill. Prior to use, users shall conduct their own investigation(s) to determine the suitability of the information for their particular purpose, and appropriate warnings and safe handling procedures should be provided to handlers and users. Any use of this data must be determined by the user to be in accordance with federal, state and local laws and regulations. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents. Since conditions of use and suitability are beyond Chemalloy's control, any risks of use and suitability are therefor assumed by the user, and Chemalloy expressly disclaims all warranties, including warranties of merchantability and fitness for a particular purpose, express or implied, in respect to the use or suitability of the material.



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