

## SAFETY DATA SHEET

**PRODUCT NAME: TIN OXIDE**

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### 1 – IDENTIFICATION OF MATERIAL AND SUPPLIER

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**SUPPLIER:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**TELEPHONE:** \_\_\_\_\_

**FACSIMILIE:** \_\_\_\_\_

**EMERGENCY:** \_\_\_\_\_

**WEB SITE:** \_\_\_\_\_

**E-MAIL:** \_\_\_\_\_

**PRODUCT NAME:** Tin Oxide (SnO<sub>2</sub>).

**PRODUCT NUMBER:** RM029

**CAS NO:** 18282-10-5

**USES:** CERAMIC GLAZES

**ISSUED DATE:** Tuesday, 8 May 2018

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### 2 – HAZARDS IDENTIFICATION

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**GHS LABEL ELEMENTS:**

**HAZARD STATEMENTS:** 

H303: May be harmful if swallowed.  
H313: May be harmful in contact with skin.  
H333: May be harmful if inhaled.

**PRECAUTIONARY STATEMENTS:**

P261: Avoid breathing dust.  
P262: Do not get in eyes, on skin.  
P264: Wash hands thoroughly after handling.

**SIGNAL WORD: WARNING**



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**PRODUCT NAME:** TIN OXIDE

**UN NUMBER:** None allocated  
**PACKING GROUP:** None allocated  
**HAZCHEM CODE:** None allocated

**DG CODE:** None allocated  
**SUBSIDURARY RISK:** None allocated

### 3 – COMPOSITION / INFORMATION ON INGREDIENTS

ENTITY	CAS NO	CLASSIFICATION	%
TIN OXIDE	18282-10-5	STOT SE 3 H335	100%

### 4 – FIRST AID MEASURES

<b>EYE:</b>	Flush eyes with large quantities of water for at least 15 minutes. If irritation persists after washing, contact a doctor.
<b>INHALED:</b>	Ventilate the premises. The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area. Should the patient feel unwell, contact a doctor.
<b>SKIN:</b>	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a doctor.
<b>SWALLOWED:</b>	If ingested, give large amounts of water to induce vomiting, only in conscious person. Contact a doctor and present the safety-data sheet.
<b>ADVICE TO DOCTOR:</b>	Treat symptomatically.

### 5 – FIRE FIGHTING MEASURES

<b>FLAMMABILITY:</b>	Non Flammable.
<b>FIRE &amp; EXPLOSION:</b>	No fire or explosion hazard exists.
<b>EXTINGUISHING:</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>PROTECTIVE EQUIPMENT:</b>	Use respiratory protection.
<b>HAZCHEM CODE:</b>	None allocated.

### 6 – ACCIDENTAL RELEASE MEASURES

<b>SPILLAGE:</b>	Use gloves and protective clothing. Uncontaminated material may be recovered and re-used. If contaminated, scoop, vacuum or wash into a receptacle or disposal. After the product has been recovered, rinse the area and materials involved with water.
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### 7 – STORAGE AND HANDLING

<b>STORAGE:</b>	Keep containers tightly closed in a dry, cool and well-ventilated place
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**HANDLING:** Avoid dust formation. Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink, or smoke in areas of use or storage. Do not take internally. Wash thoroughly after handling.

### 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE STANDARDS:**

INGREDIENT	TWA		STEL		ACGIH TLV	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
TIN OXIDE (as Sn) total dust	-	-	-	-	-	2.0

**BIOLOGICAL LIMITS:** No biological limits allocated.

**ENGINEERING CONTROLS:** Use in well ventilated area. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapor levels below the recommended exposure standard.

**PPE**

<b>Eye / Face</b>	Wear appropriate eye protection / safety glasses.
<b>Hands</b>	Impervious gloves.
<b>Body</b>	Wear appropriate clean, protective clothing such as, but not limited to, overalls, smocks, and aprons.
<b>Respiratory</b>	Use a NIOSH approved respirator in case of insufficient ventilation.

**WORK/HYGENIC PRACTICES:** When products are in use, do not eat, drink, or smoke. Wash hands immediately after use.

### 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	White powder
<b>ODOUR:</b>	None
<b>BOILING POINT:</b>	N/A
<b>MELTING POINT:</b>	>500°C
<b>VAPOUR PRESSURE:</b>	NOT AVAILABLE
<b>SPECIFIC GRAVITY:</b>	N/A
<b>FLASH POINT:</b>	NOT RELEVANT
<b>FLAMMABILITY LIMITS:</b>	NON FLAMMABLE
<b>SOLUBILITY IN WATER:</b>	Insoluble
<b>VISCOSITY:</b>	No data
<b>pH:</b>	N/A
<b>% VOLATILES</b>	N/A
<b>EVAPORATION RATE</b>	NOT AVAILABLE
<b>UPPER EXPLOSION LIMIT</b>	NOT RELEVANT
<b>LOWER EXPLOSION LIMIT</b>	NOT RELEVANT

### 10 – STABILITY AND REACTIVITY

**REACTIVITY:** None known.

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**PRODUCT NAME:** TIN OXIDE

**CHEMICAL STABILITY:** Stable.

**CONDITIONS TO AVOID:** Fumes from firing in kiln; Mist created from spray application. Avoid contact with incompatible substances.

**INCOMPATIBLE MATERIAL:** None known.

**HAZARDOUS DECOMPOSITION:** No decomposition if stored normally. Thermal decomposition can lead to release of irritating gases and vapors. Metal compounds.

**HAZARDOUS REACTIONS:** None known.

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### 11 – TOXICOLOGICAL INFORMATION

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**HEALTH HAZARD SUMMARY:  
ACUTE & CHRONIC** Prolonged contact dust can be very irritating to the eyes and/or skin. High dust levels can be irritating to the respiratory tract. With adequate ventilation, dust control and good personal hygiene, symptoms of overexposure should not occur. Ingestion of large amounts of stain may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea. Advise regular medical monitoring of employees by a physician competent in industrial health.

**EYE:** Contact with eyes may cause irritation Rubbing may cause abrasion of cornea.

**INHALATION:** Dust or fumes from firing irritating to respiratory tract.

**SKIN:** Prolonged skin contact may cause skin irritation.

**INGESTION:** May irritate digestive tract.

**TOXICITY DATA:**

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### 12 – ECOLOGICAL INFORMATION

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**ENVIRONMENT:** No data.

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### 13 – DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL:** Contain spillage and scoop or vacuum. Avoid making dust put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

**LEGISLATION:** Dispose of in accordance with relevant local legislation.

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### 14 – TRANSPORTATION

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NOT CLASSIFIED AS DANGEROUS GOODS BY THE CRITERIA OF THE ADG CODE.

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG/IMO)	AIR TRANSPORT (IATA/ICAO)
UN NUMBER	None Allocated	None Allocated	None Allocated

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**PRODUCT NAME: TIN OXIDE**

PROPER SHIPPING NAME	Tin Oxide	Tin Oxide	Tin Oxide
DG CLASS / DIVISION	None Allocated	None Allocated	None Allocated
SUBSIDIARY RISKS	None Allocated	None Allocated	None Allocated
PACKING GROUP	None Allocated	None Allocated	None Allocated
HAZCHEM CODE	None Allocated	None Allocated	None Allocated

### 15 – REGULATORY INFORMATION

**INVENTORY LISTINGS:**

**AUSTRALIA:**

All components are listed on AICS or are exempt.

**USA:**

All ingredients are on TSCA inventory.

**CANADA:**

All ingredients are on DSL inventory.

**EUROPE:**

All ingredients are on EC inventory or exempt.

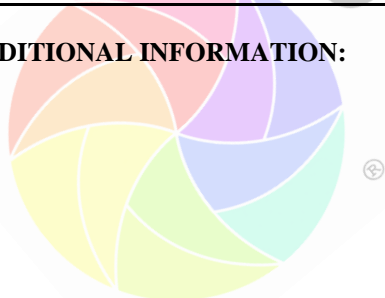
**CHEMICAL SAFETY ASSESSMENT:**

**EU:**

Warning label required according to the EU guidelines/Dangerous Chemicals Ordinance.

### 16 – OTHER INFORMATION

**ADDITIONAL INFORMATION:**



**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment made.

**HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**ABBREVIATIONS:**

AICS	Australian Inventory of Chemical Substances
ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstracts Service Number
CNS	Central Nervous System
EC No.	EC No – European Community Number
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m <sup>3</sup>	Milligrams per cubic meter
PEL	Permissible Exposure Limit

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**PRODUCT NAME: TIN OXIDE**

pH Acidity < 7 – Alkalinity > 7 measure  
ppm Parts Per Million  
REACH Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals  
STOT-RE Specific target organ toxicity (repeated exposure)  
STOT-SE Specific target organ toxicity (single exposure)  
SUSMP Standard for the Uniform Scheduling of Medicines and Poisons  
TLV Threshold Limit Value  
TWA/OEL Time Weighted Average of Occupational Exposure Limit  
STEL Short Term Exposure Limit  
TSCA Toxic Substances Control Act

**REVISION HISTORY:**

Revision	Description
1.0	Creation

**REPORT STATUS:**

The report has been by Chrysanthos Color Company Limited – China. The information provided on safety and handling represents the current knowledge at the time of writing. We should be contacted directly for further clarification regarding any aspect of the product if required.

The SDS has been prepared with all due care to include accurate and up-to-date information. We do not however provide any warranty as to accuracy or completeness. As far as lawfully possibly, Chrysanthos Color Company Limited – China accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained herein.

**PREPARED BY:**



Tony Crisafi  
Chrysanthos Color Company Limited  
2nd Floor, Building B1,  
No 19 Gaoxinxishi Road,  
Nanning High Tech Zone, Nanning,  
Guangxi 530003, China.  
Tel/Fax: +86 (771) 231 0885  
Mob: +61 402 830 337  
Email: [info@chrysanthos.com](mailto:info@chrysanthos.com)  
Web: [www.chrysanthos.com](http://www.chrysanthos.com)

**End of SDS**