

# MATERIAL SAFETY DATA SHEET PRODUCTS

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ORIGINAL ISSUÉ DATE:	1-7-86	REVISED:	

INFORMATION & EMERGENCY TELEPHONE NUMBER

(313) 755-1900

### . IDENTIFICATION

PRODUCT NAME:
TITANIUM ALLUY (5 Al, 2.5 Tin)

COMMON NAME:

TITANIUM 5-2.5

NEPA HAZARD RATING

4 = Extreme

3 = High

2 - Moderate

1 = Slight

0 = Insignificant

Flammability 0 0 0

DISTRIBUTOR:

TITANIUM & ALLOYS CORP. 21870 Hoover Road Warren, Michigan 48089

## II. INGREDIENTS AND RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS

NOTE: Products under normal conditions do not present an inhalation, ingestion or contact health hazard. However, operations, such as, burning, welding, sawing, brazing, grinding, and possibly machining, etc., which results in elevating the temperature of the product to or above its melting point or results in the generation of airborn particulates, may present health hazards.

BASE METAL, ALLOYING ELEMENTS	% WEIGHT	EXPOSURE LIMITS					
		OSHA	ACGIH TLV	HAZARD DATA			
TITANIUM ALUMINUM TIN	92.5% 5.0 2.5	20 mg/m <sup>3</sup> 20 mg/m <sup>3</sup> 2 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> 2 mg/m <sup>3</sup>	See Section VI.			
		5.00					

NOTE: All commercial metals contain small amounts of various elements in addition to those that are specified. These small quantities, frequently referred to as "trace" or "residual" elements, generally originate in the raw materials, primarily scrap, utilized in the production.

#### III. PHYSICAL DATA

MELTING POINT:

1560 - 1840°C @ 1 atmosphere..

APPEARANCE AND ODOR:

Gray metallic solid; no odor.

#### IV. FIRE AND EXPLOSION HAZARD DATA

This product does not burn. However, grinding or polishing this product in the absence oxygen, such as under water, can result in a finely divided waste which is ignitable.

#### V. REACTIVITY DATA

This is a stable material at room temperature under normal storage and handling conditions.

TEALTH HAZARD DATA	
inhalation of titanium dioxide in concentrations & INH.	dioxide, administered in C-TR-97, 1979). ALUMINUM: tion, and should be treated
RGENCY AND FIRST AID PROCEDURES: or overexposure to airborne fumes and particulates generated erations, remove exposed person to fresh air. If breathing minister artificial respiration or oxygen as indicated. So	is difficult or has stopped,
SPILL OR LEAK PROCEDURES	
/A	
PIRATURY: Respirator recommended for all grinding, cutting or selection of appropriate NIOSH/MSHA approved resirator.	, etc. Consult local supplier
l: Protective clothing and gloves may be required for cer	tain handling operations.
Safety glasses should be worn.    TILATION: Adequate general and/or local exhaust ventilation ecessary.	n should be provided as
IER PROTECTIVE EQUIPMENT:  None Required.	
SPECIAL PRECAUTIONS	
f ignitable waste is generated, special precautions and find followed:	efighting procedures should be
<ul> <li>Keep work areas free of the waste.</li> <li>Store wet and keep away from heat and open flame - main prevent an electostatic build-up.</li> <li>No smoking in area.</li> <li>Use non-sparking metal equipment.</li> <li>Extinguishing media: dry chemical powders, salts or in</li> </ul>	

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