

LTS Research Laboratories, Inc. Safety Data Sheet Titanium Aluminide

	1. Product and Company Identification
Trade Name:	Titanium aluminide
Chemical Formula:	TiAl
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	LTS Research Laboratories, Inc.
Street:	37 Ramland Road
City:	Orangeburg
State:	New York
Zip Code:	10962
Country:	USA
Tel #:	855-587-2436 / 855-lts-chem
24-Hour Emergency Contact:	800-424-9300 (US & Canada)
	+1-703-527-3887 (International)
	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H228: Flammable solid H315 Causes skin irritation H319 Causes serious eye irritation H335: May cause respiratory irritation
Precautionary Statements:	P210: Keep away from heat/sparks/open flames/hot surfaces – No
	smoking
	P261 Avoid breathing dust/fume/vapor
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for
	several minutes. Remove contact lenses if present and easy to do -
	continue rinsing
	P280: Wear protective gloves/protective clothing/eye protection/face
	protection
	P405: Store locked up
	P501: Dispose of contents/container in accordance with
	local/regional/national/international regulations
HMIS Health Ratings (0-4):	
Health:	1
Flammability:	3
Physical:	1
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	3. Composition
Chemical Family:	Intermetallic
Additional Names:	None
Titanium aluminide (TiAl):	
Percentage:	100 wt%
CAS #:	12003-96-2
EC #:	234-461-6
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Seek medical attention
Skin:	Wash affected area with mild soap and water. Remove any
P.	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Media:	Do not use water for metal fires – use CO_2 , sand, extinguishing powder
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
Spee. The Fighting Procedure.	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
	special protection information. Isolate spill area and provide
	ventilation. Vacuum up spill using a high efficiency particulate
	absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.
Environmental Precautions:	I ake care not to raise dust. Isolate runoff to prevent environmental pollution.
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	7. Handling and Storage
	Wash thoroughly after handling.
Handling Conditions: Storage Conditions:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from
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	posure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	N/A
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
body Hotection.	sleeves/pants.
9. P	hysical and Chemical Characteristics
Color	Silver grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	
Molecular weight.	74.85 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	None horatorias, Inc.
Hazardous Decomposition Products:	Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye damage.
	Causes irritation
Skin:	May cause irritation
Skin: Ingestion:	May cause irritation May cause irritation
Skin:	May cause irritation May cause irritation N/A
Skin: Ingestion: Inhalation: Chronic:	May cause irritation
Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms:	May cause irritation N/A
Skin: Ingestion: Inhalation:	May cause irritation N/A N/A
Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose:	May cause irritation N/A N/A N/A
Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose:	May cause irritation N/A N/A N/A
Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose: Carcinogen:	May cause irritation N/A N/A N/A N/A
Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose: Carcinogen: Aquatic Toxicity:	May cause irritation N/A N/A N/A N/A 12. Ecological Information
Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose: Carcinogen: Aquatic Toxicity: Persistent Bioaccumulation Toxicity:	May cause irritation N/A N/A N/A N/A 12. Ecological Information Low
Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions:	May cause irritation N/A N/A N/A N/A 12. Ecological Information Low No

Dispose of in accordance with local, state, national, and international regulations.

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n.o.s. (Titanium aluminide)

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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07/02/2015