

# LTS Research Laboratories, Inc. Safety Data Sheet Vanadium Silicide

### 1. Product and Company Identification

Trade Name: Vanadium silicide

Chemical Formula: VSi<sub>2</sub>

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: Warning



Hazard Statements: H315 Causes skin irritation

H319 Causes serious eye irritation H302: Harmful if swallowed

H335: May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do  $-\,$ 

continue rinsing

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 1 Physical: 1

3. Composition	
Chemical Family:	Ceramic
Additional Names:	None
Vanadium silicide (VSi <sub>2</sub> ):	
Percentage:	100 wt%
CAS #:	12039-87-1
EC #:	234-908-5
	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
	contact lenses if present and easy to do. Continue mising
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Media:	Use CO <sub>2</sub> , extinguishing powder, water spray, alcohol resistant foam.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
Spec. 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:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10.
Work/Hygienic Maintenance:	
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
venulation.	

#### 8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A
Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

#### 9. Physical and Chemical Characteristics

Color Grey Form: Crystalline Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A **Melting Point:** N/A Flash Point: N/A **Autoignition Temperature:** N/A 4.42 g/cc Density: 107.11 g/mol Molecular weight:

## 10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With:
Incompatible Conditions:

Oxidizing agents
None

Hazardous Decomposition Products: Metal oxide fume

## 11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage
Skin: Causes skin irritation
Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: Inorganic silicon compounds may be acute inhalation irritants.

Prolonged inhalation may cause pulmonary fibrosis known as

silicosis.

Vanadium compounds act chiefly as an irritant to the eyes and respiratory tract. Exposure may cause conjunctivitis, rhinitis and reversible irritation of the respiratory tract. More severe cases may cause bronchitis, bronchospasms and asthma like disease. May cause polycythemia, red blood cell destruction and anemia, albuminuria and hematuria, gastrointestinal disorders, nervous complaints and severe

cough.

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: N/A

	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	13. Disposal Considerations

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 6.1 Toxic substances.

Packing Group: III UN Number: UN3285

Proper Shipping Name: Vanadium compound, n.o.s. (Vanadium silicide)

15. Regulatory Information

Sec 302 Extremely Hazardous:

No

Sec 304 Reportable Quantities:
Sec 313 Toxic Chemicals:

N/A
Yes

## 16. Other Information

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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