



WHEN THE **HEAT** IS ON, KEEP YOUR COOL WITH **AVS!**

Safety Data Sheet (SDS)

SDS-114
May 2019

Product: AVS Silica Silrub 84CH, AVS Silica Silrub 136CH, AVS Silica Silrub 188CH

1. Chemical Product and Company Identification

Trade Name: AVS Silica Silrub 84CH, AVS Silica Silrub 136CH, AVS Silica Silrub 188CH

Synonyms: Silica Fabric, Silicone Coated, 1 & 2 sided

Manufacturer

AVS Industries LLC
21 Bellecor Drive
Unit C
New Castle, DE 19720

Phone Product Information (302) 221-1720
Revision Date: May 31, 2019

DESCRIPTION

No Hazard Rating is available for this Product.

2. Hazard Identification

Emergency Overview:

Tan colored flexible woven fabric on one side, and red colored silicone coating on the reverse side, having no odor.

Effects of Overexposure:

Eye Contact: Slight irritation may be caused in contact with eyes.

Skin Contact: Temporary irritation of skin may be produced.

Inhalation: Inhalation of airborne fibers may cause irritation to the mouth, nose and throat.

Ingestion: May cause temporary irritation of the digestive tract, but not an expected route of entry in industrial uses.

Chronic Hazards: There are no known chronic health effects associated with the use of this product under normal working conditions.

Primary Routes of Entry: Skin contact, inhalation, ingestion & eye contact.

Carcinogenicity Information: The Silicone Coating Only Part A contains $\leq 0.4\%$ quartz (crystalline silica). Crystalline silica is suspected human carcinogen per ACGIH, and a IARC Group 1 human carcinogen.

Product: AVS Silica Silrub 84CH, AVS Silica Silrub 136CH & AVS Silica Silrub 188CH

3. Composition and Information on Ingredients

Ingredient(s)	CAS Number	Approx. Percent
<u>Product</u>		
Amorphous Silica	7631-86-9	95%
Proprietary Finish		
Triethylene Amine	121-44-8	<0.2%

Silicone System

Composition – Mixture of Polyorganosiloxanes, fillers & additives

	Common Name and Synonyms	CAS Number	Approx. Percent
Octamethyl Cyclo Tetra Siloxane	D4	556-67-2	0.1-1%

Fillers and additives encapsulated in a polymer are not expected to pose a health hazard when processed under normal conditions of use.

4. First Aid Information

Eye Contact: Flush eyes immediately with large amounts of water for at least 15 minutes holding eyelids open while flushing. Seek medical attention promptly.

Skin Contact: Wash contaminated skin thoroughly with mild soap and cool water. Seek medical attention if irritation persists.

Inhalation: Remove person from source of exposure and then seek medical attention immediately.

Ingestion: Seek medical attention immediately.

5. Fire Fighting Measures

Flash Point: N.A.

Lower Explosive Limit (%): N.A.

Upper Explosive Limit (%): N.A.

Autoignition Temperature: N.D.

Extinguishing Media: Carbon dioxide, water, foam or dry chemical for type of surrounding fire.

Unusual Fire & Explosion Hazards: During sustained fire the following hazardous decomposition products may be evolved: silicon dioxide, metal oxides, quartz, carbon dioxide, traces of incompletely burned carbon products and formaldehyde.

Fire Fighting Instructions: Wear full fire fighting protective equipment including self-contained breathing apparatus.

6. Accidental Release Measures

Step to be taken in case material is released or spilled:

Dust or loose fibers can be vacuumed or swept with the aid of a dust suppressant.

Dispose according to federal, state, and local environmental regulations.

Product: AVS Silica Silrub 84CH, AVS Silica Silrub 136CH & AVS Silica Silrub 188CH

7. Handling and Storage

Store material in a clean dry place, and keep container closed. Store away from oxidizing materials.

Particular care should be taken when working with "used" material to minimize dust. If exposure limits are exceeded or if irritation is experienced, NIOSH approved respiratory protection should be worn.

8. Exposure Controls and Personal Protection

ENGINEERING CONTROLS:

Ventilation: General ventilation and/or local exhaust ventilation are adequate.

Respiratory Protection: Respirators are not necessary under normal working conditions.

Eye Protection: Eye protection is not necessary under normal working conditions.

Protective Clothing: Protective Clothing is not necessary under normal working conditions.

Hygienic Practices: Use good personal hygiene practices.

EXPOSURE LIMITS:

Product

Amorphous Silica

PEL (OSHA) 80mg/m³ ÷ % SiO₂ or 20 mppcf

TLV (ACGIH) 10 mg/m³ (inhalable fraction); 3 mg/m³ (respirable)

NIOSH 6 mg/m³

IDHL 3000 mg/m³

Silicone

Dimethylsiloxane, dimethylvinyl-terminated

N.E.

Calcium Carbonate treated with stearic acid

*PEL (OSHA) 15 mg/m³ (total); 5 mg/m³ (respirable)

*TLV (ACGIH) 10 mg/m³

*Exposure limits for calcium carbonate only.

Alumina Hydrate

N.E.

Dimethylcyclosiloxanes

N.E.

Quartz

PEL (OSHA) 10 mg/m³ ÷ % SiO₂+2 (respirable)

30 mg/m³ ÷ % SiO₂+2 (total)

TLV (ACGIH) 0.05 mg/m³ (respirable)

IDLH 50 mg/m³

Dimethyl, methylhydrogen siloxane

N.E.

Decamethylcyclopentasiloxane

N.E.

Silicone & Red Pigment Ingredients

Dimethylsiloxane, dimethylvinyl-terminated

N.E.

Product: AVS Silica Silrub 84CH, AVS Silica Silrub 136CH & AVS Silica Silrub 188CH

Titanium Dioxide
PEL (OSHA) 15 mg/m³
TLV (ACGIH) 10 mg/m³

Chromium, III
PEL NIOSH/(OSHA) 0.5 mg/m³
TLV (ACGIH) 0.5 mg/m³
IDLH 25 mg/m³

Antimony & Compounds (as Sb)
PEL (OSHA) 0.5 mg/m³
TLV (ACGIH) 0.5 mg/m³

9. Physical and Chemical Properties

PHYSICAL DATA:

Boiling Point: 4046° F
Melting Point: >3000° F
Solubility in Water: Insoluble
Vapor Pressure: N.D.
Vapor Density: N.D.
Specific Gravity: 2.2
Color: Tan colored one side; reverse side red
Odor: None
Physical State: Woven Fabric coated on one side with silicone.

10. Stability and Reactivity

Chemical Stability: Product is stable at normal temperature and storage conditions.

Incompatibilities:

Silica Fabric: Basic phosphates, hydrofluoric acid, and some oxides and hydroxides.
Silicone Coating: Oxidizing materials can cause a reaction.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Hazardous Decomposition Products (Silicone Coating Only): Thermal breakdown of this product during very high heat conditions may evolve the following hazardous decomposition products: carbon oxides and traces of incompletely burned carbon compounds, silicone dioxide, metal oxides, quartz and formaldehyde.

11. Toxicological Information

Material which has been subjected to elevated temperatures (>1800°F) may undergo partial conversion to cristobalite, a form of crystalline silica, which may cause respiratory illness. The amount of cristobalite present will depend on the temperature and length of service. The OSHA PEL for cristobalite is 0.05 mg/m³ (respirable).

12. Ecological Information

No information is available; however, toxicity is expected to be low based on the insolubility in water of the product.

13. Disposal Considerations

Dispose of waste material in accordance with applicable federal, state, and local environmental regulations.

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14. Transportation Information

DOT Proper Shipping Name: Silica Fabric, Silicone Coated
DOT Hazardous Class: None
DOT UN/NA Number: None
Emergency Response Guide Number: None

15. Regulatory Information

U.S. Federal Regulations as Follows:

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372:
Chromium compounds, Antimony compounds

TSCA:

The chemical substances in this product are on the TSCA Section 8 Inventory.

EXPORT NOTIFICATION:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:
None

INTERNATIONAL REGULATIONS AS FOLLOWS:

Canadian WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

Canadian WHMIS CLASS: Not Regulated.

DSL:

The chemical substances in this product are listed on the Domestic Substances List (DSL).

16. Other Information

This Material Safety Data Sheet was revised in its entirety in May 2019.

ABBREVIATIONS:

- 1) ACGIH – American Conference of Governmental Industrial Hygienists
- 2) OSHA – Occupational Safety and Health Administration
- 3) NIOSH – National Institute of Occupational Safety and Health
- 4) IARC – International Agency for Research on Cancer
- 5) NTP – National Toxicology Program
- 6) TLV – Threshold Limit Value
- 7) PEL – Permissible Exposure Limit
- 8) TWA – Time Weighted Average
- 9) STEL – Short Term Exposure Limit
- 10) IDHL – Immediately Dangerous to Life or Health
- 11) N.A. – Not Applicable
- 12) N.D. – Not Determined
- 13) N.E. – Not Established
- 14) DSL – Domestic Substances List

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