

## SAFETY DATA SHEET (SDS)

Revised: July 2018

**SECTION 1 – IDENTIFICATION**

**Trade Name:** Vulcan 65-PSS / 65-SS / 65-RCS      **Manufacturer:** Vulcan Systems, LLC  
**Emergency Telephone. No:** (989)739-8050      5740 F-41, Oscoda, MI 48750  
 info@vulcan-systems.com

**SECTION 2 – HAZARDOUS IDENTIFICATION**

**OSHA/HCS status :** While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**GHS Signal Word:** Warning

**Hazardous Statements:** Category 2 Eye Irritant. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS**

This information is protected by Trade-Secret

**SECTION 4 – FIRST AID PROCEDURES**

Get medical attention if any damage to the eye is caused by the metal. Flush contaminated skin with plenty of water. Cuts should be treated promptly and covered. If swallowed, rinse mouth. Do NOT induce vomiting.

**SECTION 5 – FIRE-FIGHTING MEASURES**

Non-flammable. **Extinguishing Media** – Co2 or Dry Chemical Extinguisher.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

Toxic to aquatic life.

**SECTION 7 – HANDLING AND STORAGE**

Workers should wash hands and face before and after use of this product. Store in a cool location out of direct sunlight.

Cleaning methods - Collect paste in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe up further residue with paper towel and place dirty towels in container. Wash spill area with soap and water to remove the last traces of residue.

**SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION**

This section covers the material from which this product is manufactured. The term “hazardous ingredients” should be interpreted as a term required and defined in OSHA hazard communication standard.

ingredients	CAS No.
Iron (limits as oxide fume) (Fe)	7439-89-6
Chromium (Cr) <sup>(C)</sup> <sup>(1)</sup>	7440-47-3
Molybdenum (Mo)	7439-98-7
Manganese (limits as fume) <sup>(1)</sup> (Mn)	7439-96-5
Silicon (Si)	7440-21-3
Tungsten (W)	7440-33-7

ingredients	Exposure Limit (mg/m3)	
	OSHA PEL	ACGIH TLV
Iron (limits as oxide fume) (Fe)	10, 5 (Resp)	5
Chromium (Cr) <sup>(C)</sup> <sup>(1)</sup>	1 (metal) 0.5 (Cr III) 0.005 (Cr VI)	0.5 (metal) 0.5 (Cr III) 0.05 (Cr VI)
Molybdenum (Mo)	15, 5 (Resp)	10, 20**, 0.5 <sup>(SC)</sup> (Resp)
Manganese (limits as fume) <sup>(1)</sup> (Mn)	1, 5*, 3.0**	0.2
Silicon (Si)	15 (dust) 5 (Resp)	10, 20 **, 3(Resp)
Tungsten (W)	5.0, 10.0**	5.0, 10.0**

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Silver-grey	Upper/lower flammability or exposure limits	N/A
Odor	N/A	Vapor Pressure	N/A
Odor threshold	N/A	Vapor density	N/A
pH	N/A	Relative Density	N/A
Melting point/freezing point	N/A	Solubility	N/A
Initial boiling point and boiling range	N/A	Flash point	N/A
Evaporation rate	N/A	Flammability	N/A
Partition coefficient	N/A	Auto-ignition temperature	> 580 degrees F
Decomposition temperature	N/A	Viscosity	N/A

**SECTION 10 – STABILITY AND REACTIVITY**

Chemical Stability - Chemically stable at normal temperatures and pressures

Conditions to Avoid - Avoid extreme temperatures above 450 °C, such as those due to welding. Also avoid prolonged exposure to direct sunlight

**SECTION 11 – TOXICOLOGICAL INFORMATION**

Eyes - Causes serious eye irritation.

Skin - Low toxicity: may cause mild skin irritation.

Inhalation - Low toxicity: may cause nose, throat and lung irritation. Overexposure to dust or metal fumes may lead to pneumoconiosis or Stannosis.

Ingestion - Low toxicity: abdominal pain, nausea, vomiting, diarrhea Chronic Prolonged or repeated exposure to silver or silver compounds by ingestion or inhalation can cause an irreversible blue-grey skin discoloration.

**SECTION 12 – ECOLOGICAL INFORMATION**

Toxic to aquatic life. Avoid release into the environment.

Not readily biodegradable

**SECTION 13 – DISPOSAL CONSIDERATIONS**

See Section 12 above.

**SECTION 14 – TRANSPORTATION INFORMATION**

Not Applicable

**SECTION 15 – REGULATORY INFORMATION****HMIS® RATING**

<b>HEALTH:</b>	<b>*</b>	<b>1</b>
<b>FLAMMABILITY:</b>		<b>0</b>
<b>PHYSICAL HAZARD:</b>		<b>0</b>
<b>PERSONAL PROTECTION:</b>		

**NFPA® 704 CODES**

*Approximate HMIS and NFPA Risk Ratings Legend:*

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

**SECTION 16 – OTHER INFORMATION**

Vulcan Systems, LLC, believes this data to be accurate, but no warranty, expressed or implied, is made.