

MATERIAL SAFETY DATA SHEET



1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name:	SUPER RAM CP-50
UN Number	No UN Number Allocated
Product Type:	Monolithic Refractory (Cold Ramming Paste)
TS Number:	LPD30116

Company Name And Address:	Vesuvius USA 495 Emma Street Bettsville, OH 44815
Technical Contact:	Phone #: 1-419-986-5126 24hr. Emergency Assistance (CHEMTREC) 1-800-424-9300
Emergency Contact:	Outside the Continental U.S. See Section 15 or Call Chemtrec Collect: 703-527-3887

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	% Range	Identification No.	Exposure Limits U.S.A.
Coke	50-95	CAS 65996-77-2	Nuisance Particulate ACGIH TLV:TWA (resp.) 5mg/m ³ OSHA PEL:TWA (resp.) 5mg/m ³
Silica, Amorphous	1-5	CAS 69012-64-2	ACGIH TLV: Withdrawn
Pitch, Coal Tar	10-30	CAS 65996-93-2	OSHA PEL:TWA CTP Volatiles; 0.20mg/m ³ (benzene soluble fraction)



3. HAZARDS IDENTIFICATION

Emergency Overview:	Product is black, damp, semi-hard and dust free. Not a fire or spill hazard. Prolonged skin contact may produce irritation/inflammation. Product will emit acrid smoke, CO, CO ₂ , and irritating fumes on exposure to fire.
Precautions:	Pre-existing lung conditions such as, but not limited to bronchitis, emphysema and asthma.
Chronic Health Effects:	Individuals with chronic respiratory disorders and pre-existing skin disorders may be at increased risk from extended exposure to pitch vapors/fume. The product contains coal- tar pitch which is listed as a human carcinogen (Group 1) by IARC and by NTP as a confirmed carcinogen.
Acute Health Effects:	Eyes: Irritation and inflammation Skin: Reddening of skin and slight skin irritation Inhalation: Irritation of upper respiratory system Ingestion: May cause gastrointestinal disturbances

4. FIRST AID MEASURES

Inhalation:	Remove victim to fresh air. If not breathing, give artificial respiration and seek medical attention.
Eye contact:	Flush eyes with large amounts of water. Seek medical attention if irritation persists.
Skin contact:	Wash affected area with mild soap and water.
Ingestion:	Seek medical attention if symptoms persist.

5. FIRE FIGHTING MEASURES

Extinguisher Type:	No special instructions or conditions.
Special Procedures:	No special instructions other than use of approved respirators. Product is not a combustible. However, it does contain a pitch which will on decomposition emit acrid smoke, CO, CO ₂ , SO _x , and hazardous volatiles some of which may be carcinogenic.

6. ACCIDENTAL RELEASE MEASURES

Spillage:	No special requirements. Use safety glasses, gloves, skin protection, and respiratory protection.
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7. HANDLING AND STORAGE

Handling	Use safety glasses, gloves, skin protection, and respiratory protection.
Storage	Same as handling requirements. Leave in plastic wrap.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation:	Provide sufficient ventilation, in both volume and airflow patterns, to control any mist/particulate emissions below allowable limits. See Exposure Limits in Section 2.
Respiratory:	Provide workers with legally approved respirators for level of exposure incurred.
Eye:	The use of proper eye protection is recommended (ex. safety glasses).
Hand:	The use of proper hand protection is recommended (ex. barrier cream with anti-slip gloves).
Other:	Safety shoes and long sleeve shirts are recommended for foot and skin protection.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: A mixture of black extruded semi-hard material; slight tar odor.

Boiling Point:	Not Applicable
Melting Point:	>2900°F (1590°C)
Bulk Density:	See specific Product Data Sheet
% Volatile by Volume:	<5
Evaporation Rate:	Not applicable
Water Solubility:	<3
pH (10% aqueous slurry):	Not applicable
Specific Gravity (g/cc):	Mixture

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Incompatibility	None
Hazardous Decomposition	Temperatures greater than 287 degrees C can produce CO, CO ₂ & SO _x

11. TOXICOLOGICAL INFORMATION

Substance & CAS Number	Carcinogenic Data	Summary of Hazards
Coke (CAS 65996-77-2)	No Data Found	Respiratory: Nuisance Particulate
Amorphous Silica (CAS 69012-64-2)	No Data Found	Respiratory: Inhalation Hazard
Coal Tar Pitch (CAS 65996-93-2)	IARC Group 1	May Cause Cancer

12. ECOLOGICAL INFORMATION

No Data Available

13. DISPOSAL INFORMATION

This product, as manufactured, does not exhibit any characteristics of a hazardous waste. It is suitable for landfill disposal. However, debris generated during installation, maintenance or tear-out procedures may be contaminated with other hazardous materials. Therefore, appropriate waste analysis may be necessary to determine proper disposal. A qualified environmental professional in accordance with applicable federal (country specific), state, and local regulations (laws) should determine waste characterisation and disposal/treatment methods.

14. TRANSPORT INFORMATION

This product is not classified as a hazardous material for transportation. No hazard class, no label or placard required, no UN or NA number assigned. A environmental professional for country specific regulatory requirements should review shipment outside the U.S.



15. REGULATORY INFORMATION

<u>Products or components of mixture regulated under the following</u>
U.S.A. Regulations:
Sara Title III: (302/304) No; (311/312) Yes; (313) Yes (Polycyclic Aromatic Hydrocarbons~0.7%)
CERCLA (RQ): No
TSCA: Yes (All Substances listed in ingredients)
California Proposition 65: Yes
HMIS Codes: Health: 2 Fire: 1 Reactivity: 0 Protection: B
Canadian Regulations:
Domestic Substance List (DSL): Yes (All Substances Listed)
WHMIS Class: D2A,E
Contact Phone # 905-732-4441

**16. OTHER INFORMATION****ACRONYMS AND REFERENCES USED IN PREPARATION OF MSDS':**

ACGIH: American Conference of Governmental Industrial Hygienists
CAS#: Stands for Chemical Abstracts Service
CERCLA: Comprehensive Environmental Response, Compensation & Liability Act
IARC: International Agency for Research on Cancer
Group 1: Carcinogenic to Humans. (IARC)
Group 2A: Probably Carcinogenic to Humans. (IARC)
Group 2B: Possibly Carcinogenic to Humans. (IARC)
Group 3: Unclassifiable as to Carcinogenicity in Humans. (IARC)
Group 4: Probably not Carcinogenic to Humans. (IARC)
HMIS: Hazardous Materials Identification (National Paint and Coatings Association)
mg/m³: Milligrams per cubic meter
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit (OSHA)
SARA: Superfund Amendments and Reauthorization Act
TITLE III: Emergency Planning and Community Right To Know Act
Section 302: Extremely Hazardous Substances
Section 304: Emergency Release
Section 311: *Community Right-to-Know*, MSDSs or List of Chemicals
Section 312: *Community Right-to-Know*, Inventories & Locations, (Tier I/Tier II)
Section 313: Toxic Chemicals, Toxic Chemical Release Reporting, Form R
TLV: Threshold Limit Values (ACGIH)
TWA: Time Weighted Average

REFERENCES:

Sax, N. Irving: Dangerous Properties of Industrial Materials, Ninth Edition, Van Nostrand Reinhold Co., Inc., 1996.
Kirk, R. and Othmer, D., Encyclopedia of Chemical Technology, Third Edition, Wiley-Interscience, New York, NY 1982.
Clansky, K.B., Suspect Chemicals Sourcebook, 1992-2 Edition, Roytech Publications, Bethesda, Maryland.
Sax, N.Irving and Lewis, R.J. Hawley's Condensed Chemical Dictionary, Eleventh Ed., Van Nostrand Reinhold Co., Inc., NY
Manufacturers/Suppliers, Material Safety Data Sheets on Raw Materials Used
American National Standard for Hazardous Industrial Chemicals - Material Safety DataSheets - Preparation, American National Standards Institute, Inc. 11 West 42nd St, New York, NY 10036.

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