1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Silicon Carbide Powder (SCP)
Part Number: SCP **** -1 & 5
Manufacturer: Mark V Lab
Address: 18 Kripes Rd. East Granby, CT 06026
Phone Number: 860-653-7201 Emergency Phone: 888-681-5485
Hazardous Spill Response:

2.0 HAZARD IDENTIFICATION

GHS Classification: Non-Hazardous

IDLH (Immediate Danger to Life and Health): None

Carcinogenic Assessment (NIP Annual Report, IARC Monographs, other): Not Listed

Physical Hazards: None

Health Hazards: Classification of the Substance of Mixture (Dry Dust / Inhalation): None

Label Elements: (Dust / Inhalation)

Signal Word: None **Hazard Statement(s):**
H335: May Cause Respiratory Irritation (Dust Inhalation)

Precautionary Statements:
P260: Do not breath dust
P281: Use personal protective equipment as required

Precautionary Response:
P305: **IF IN EYES**: Rinse cautiously with water for 15 minutes.
P304+P340: **IF INHALED**: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P302+P350: **IF ON SKIN**: Wash gently with soap and water.
P301+310: **IF SWALLOWED**: Immediately call a POISON CENTER or doctor/physician

3.0 COMPOSITION & HAZARDOUS INGREDIENTS

The terms “hazardous” and “hazardous materials” as used within this SDS (EU - MSD) should be interpreted as defined by, and accordance with, the OSHA Hazard Communication Standard (29 CFR 1910:1200) and the EU Occupational Exposure Limits (OEL) REGULATION (EC) No 1272/2008 including cited Appendices, Lists, References, etc., all of which are hereby incorporated by reference and stated below as appropriate.

OECD SIDS documents published by UNEP Chemicals in response to its mandate to facilitate the access to information needed for health and environmental risk assessment of chemicals. The documents contain the information gathered and an Initial Assessment performed under the framework of the OECD HPV Chemicals Programme.

Substance	CAS Number	EC Number	Percent by Weight
Silicon Carbide	409-21-2	206-991-8	97.0%-100.0%
Graphite	7782-42-5	231-955-3	0.0 – 3.0%

Hazardous Mixtures: None

(See Section 8.0 for Occupational Exposure Limits)

4.0 FIRST AID MEASURES

First-aid measures general : If medical advice is needed, have product container or label at hand. **First-aid measures after inhalation:** If symptoms of pulmonary involvement develop (coughing, wheezing, shortness of breath, etc), remove from exposure and seek medical attention.

First-aid measures after skin contact: Wash affected area with soap and water and isolate from exposure. If irritation or rash persists, seek medical attention.

First-aid measures after eye contact: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Seek medical attention if material is embedded in eye. If eye irritation persists: Get medical advice and attention.

First-aid measures after ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Symptoms/injuries: Repeated or prolonged inhalation may damage lungs.

Symptoms/injuries after inhalation: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of the throat.

Symptoms/injuries after skin contact: Prolonged contact with large amounts of dust may cause mechanical irritation. Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Symptoms/injuries after eye contact: Redness, pain.

Symptoms/injuries after ingestion: Abdominal pain.

Chronic symptoms: Respiratory difficulties.

5.0 FIRE-FIGHTING MEASURES

Fire Hazard: Not Flammable under normal conditions.
Extinguishing Media: Use ABC type fire extinguisher for surrounding fire.
Special Firefighting Procedures: For a powder fire confined to a small area - use a respirator approved for dusts
Unusual Fire and Explosion Hazards: Product is not explosive but if dust is generated, dust clouds suspended in the air can be explosive.
Reactivity: Hazardous reactions will not occure under normal conditions.
Protection During Firefighting: Use normal individual fire protective equipment.

6.0 ACCIDENTAL RELEASE MEASURES

Personal Precautions / Protective Equipment:

Do not breathe dust. Avoid generation of dust during clean-up of spills. Recover the product by vacuuming, shoveling or sweeping. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up.

Wear suitable protective clothing, gloves and eye/face protection. If airborne dust is generated, use the appropriate NIOSH approved respiratory protection if PEL is exceeded.

Environmental Precautions: Prevent further leakage or spillage and comply with local, state, and federal regulations.
Methods / Materials for Containment & Clean-up:

Recover the dried product by vacuuming, shoveling or sweeping. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up.

7.0 HANDLING & STORAGE

Precautions for Safe Handling:

If product has dried, do not breathe dust. Avoid creating or spreading dust.

Handle in accordance with good industrial hygiene and safety procedures. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke in areas where product is used.

Conditions for Safe Storage:

Store in a cool dry place. Keep container tightly closed while being stored or not in use. No incompatible materials while in water.

8.0 EXPOSURE CONTROLS & PERSONAL PROTECTION

Control Parameters

Silicon Carbide Powder (SCP) – 409-21-2

ACGIH TWA (mg/m³) 0.1 fibers / cm^3 (use of membrane filter at 400-450x magnification) **ACGIH**

STEL Not Established

ACGIH TLV 5.0 mg/m^3 - General Dust

NIOSH REL (TWA) (mg/m³) 5.0 mg/m³ - General Dust

OSHA PEL (TWA) (mg/m³) 5.0 mg/m³ - General Dust

(Dried Product - Dust)

IDLH (mg/m³) 5.0 mg/m³ - General Dust

OECD SIDS UNEP TLV NA

BAuATRGS 900 NA

Graphite – 7782-42-5

ACGIH TWA (mg/m³) 2.0 mg/m³ - Except Graphite Fibers

ACGIH STEL 2.0 mg/m³ - General Dust

ACGIH TLV 2.0 mg/m³ - General Dust

NIOSH REL (TWA) (mg/m³) 2.0 mg/m³ - General Dust

OSHA PEL (TWA) (mg/m³) 2.0 mg/m³ - General Dust

IDLH (mg/m³) 1250 mg/m³ - General Dust

OECD SIDS UNEP TLV NA

BAuATRGS 900 NA

TLV: Threshold Limit Value of a chemical substance is a level to which it is believed a worker can be exposed day after day for a working lifetime without adverse health effects.
TWA: (Time Weighted Average - TLV-TWA): average exposure on the basis of a 8h/day, 40h/week work schedule **STEL:** (Short Term Exposure Level) is an employee's 15-minute time weighted average exposure at any time during a work day and cannot be repeated more than 4 times in a day.

Personal Protective Equipment: In case of dust production: dust proof clothing (Tyvek), protective goggles respiratory protection such as dust mask, respiratory apparatus as prescribed below:



Respiratory Protection: Use an appropriate NIOSH approved respirator if airborne dust concentrations exceed the appropriate PEL or TLV. All requirements set forth in 29CFR1910.134 must be met.

Protective Gloves: Protective gloves are recommended when contact with dust or mist is likely. Wash thoroughly prior to applying using protective gloves.

Ventilation: Use local exhaust ventilation which is adequate to limit personal exposure to airborne dust to levels which do not exceed the appropriate PEL or TLV. If such equipment is not available, use respiratory protection as specified above.

Eye protection: Safety glasses with side shields or goggles are recommended.

Other Equipment: Full body protective clothing is advisable if contact with dust is expected. Work clothing should be changed daily if it is suspected that the clothing is contaminated.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Color:	Granular – No Odor Black / Green Granular
Physical State:	Solid
pH:	NA
Viscosity:	NA
Specific Gravity:	NA
Relative Denisty:	3.2 (water = 1)
Vapor Density:	NA
Vapor Pressure:	NA
Melting Point:	2700 C
Boiling Point:	NA
Flash Point:	NA
Freezing Point:	NA
Percent Volatility:	NA
Evaporation Rate (baC=1)	NA
Solubility in Water:	InSoluable
Solubility in Oil:	Not Available
Solubility in Solvents:	Not Available

10.0 STABILITY AND REACTIVITY

Reactivity: Hazardous reaction will not occur under normal conditions.

Stability: This composition is stable under normal conditions.

Incompatibility (materials to avoid): Strong Acids, Strong Bases and Avoid oxidizers.

Hazardous Decomposition Products: Carbon Oxides / Boron Oxides

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Avoid creating dust. Dust clouds suspended in are can be explosive.

11.0 TOXICOLOGICAL INFORMATION

Acute Toxicity: Not Classified

Skin Corrosion / Irritant: Not Classified

Serious Eye Damage / Irritant: Not Classified

Respiratory / Skin Sensitisation: Not Classified

Cell Mutagenicity: Not Classified **Germ**

Carcinogenicity: Not Classified

Reproductive Toxicity: Not Classified

Target Organ Toxicity (Single Exposure): May cause respiratory irritation from dust.

Target Organ Toxicity (Repeated Exposure): If dust is present: causes damage to organs (lung / respiratory system) through prolonged or repeated exposure (inhalation)

Additional information: None

Aspiration Hazard: Not Classified

12.0 ECOLOGICAL INFORMATION

Ecotoxicity: This product is not expected to be toxic to the environment. Adopt environmental controls to prevent the product from being released into the environment.

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: Not expected to bioaccumulate

Mobility in Soil: No information available

Other Adverse Effects: No information available

13.0 DISPOSAL CONSIDERATION

Spillage should be cleared with a vacuum equipment, protected against static electricity, to acoid dust discharge. You may moisten product to be swept. Dispose in a safe manner in accordance with local, state and federal regulations.

14.0 TRANSPORT INFORMATION

15.0 REGULATORY INFORMATION

	Non-regulated
DOT Classification:	Non-regulated
IMO Classification:	Non-regulated
IATA Classification:	Non-regulated
Proper Shipping Name:	Non-regulated
UN Number:	Non-regulated
Packing Group:	Non-regulated
Label:	Non-regulated
Reportable Quantity:	Non-regulated
Transportation in Bulk:	

U.S. Federal Regulations:

Comprehensice Environmental Response Compensation and Liability Act of 1980 (CERCLA): No reportable quantity for this product.

Toxic Substance Control Act (TSCA):

All components of this product are listed on the TSCA inventory.

Clean Water Act (CWA):

None listed under sections of the Clean Water Act. Contact your local / state authorities to determine if substances are regulated under their jurisdiction.

Clean Air Act (CAA):

None listed under sections of the Clean Water Act. Contact your local / state authorities to determine if substances are regulated under their jurisdiction.

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

This product does not contain toxic chemical (s) subject to requirements of SARA Section 311 / 312 / 313 (40 CFR 372) for immediate (acute) health hazard and delayed (chronic) health hazard.

EUROPEAN / INTERNATIONAL REGULATIONS:

Control of Substances Hazardous to Health (COSHH):

Component(s) are not listed under the sections of the COSHH regulation. Contact your local authorities to determine if substances are regulated under their jurisdiction.

Scottish Environmental Protection Agency (SEPA):
Component(s) are not listed on SEPA. Contact your local authorities to determine if substances are regulated under their jurisdiction.

Canada:
The components are not listed on the DSL (Domestic Sustances List) inventory. WHMIS Classification:
Not Listed

Hazard Classification
European Union Directives 67/548/EEC and 1999/45/EC Safety
Phrases: S 22 Do not breathe dust.

16.0 OTHER INFORMATION

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S 36 Wear suitable protective clothing. **U.S. STATE REGULATORY INFORMATION:**

New Jersey Right to Know: Graphite 7782-42-5
Massachusetts Right to Know: Silicon Carbide 409-21-2, Graphite 7782-42-5
Pennsylvaniea Right to Know: Silicon Carbide 409-21-2, Graphite 7782-42-5
New York Occupational Exposure Limits: Graphite Mineral Dusts

CALIFORNIA PROPOSITION 65: Components are not listed on California Proposition 65 List.

International Air Transport Authority (IATA): Non-hazardous for air transport.

NFPA health hazard	1 - Exposure would cause irritation with only minor residual injury
NFPA fire hazard	0 - Materials that will not burn.
NFPA reactivity	0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating

Health	1 - Irritation or minor reversible injury possible.
Flammability	0
Physical	0
Personal Protection	E

Reference:

UNEP Publications, OECD SIDS, Chemical Abstract Search (CAS) Database, European Chemicals Agency (ECHA), Workplace Hazard Material Information System (WHMIS)

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; WHMIS=Workplace Hazard Material Information System; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

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