

SAFETY DATA SHEET

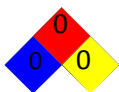
Per OSHA HCS (29 CFR 1910.1200)

Section 1. Identification

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- **Product identifier**
 - **Trade name:** Silicon Carbide
 - **Article number:** No other identifiers
 - **CAS Number:**
409-21-2
 - **Recommended use and restriction on use**
 - **Recommended use:** Refractories, abrasives, ceramics
 - **Restrictions on use:** Contact manufacturer.
 - **Details of the supplier of the Safety Data Sheet**
 - **Manufacturer/Supplier:**
Panadyne Inc.
516 Stump Rd.
Montgomeryville, Pa 18936
215.444.9315
 - **Emergency telephone number:**
215.444.9315
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Section 2. Hazard(s) Identification

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- **Classification of the substance or mixture**
The substance is not classified as hazardous according to the Globally Harmonized System (GHS).
 - **Label elements**
 - **GHS label elements**
The product is not classified as hazardous according to OSHA GHS regulations within the United States.
 - **Hazard pictograms** Not Regulated
 - **Signal word** Not Regulated
 - **Hazard-determining components of labeling:** None.
 - **Hazard statements** Not Regulated
 - **Precautionary statements** Not Regulated
 - **Hazard description:**
(Section 2 con't)
 - **WHMIS-symbols:** Not hazardous under WHMIS.
 - **Classification system:**
 - **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

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· HMIS-ratings (scale 0 - 4)

HEALTH	0
FIRE	0
REACTIVITY	0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

Section 3. *Composition/information on Ingredients*

- **Chemical characterization: Substances**
- **CAS No. Description**
409-21-2

Contains traces of C, Si, Fe₂O₃, CaO, MgO and crystalline silica where the content of particles in respirable form is less than the limit being subject for classification. (0.1%)

Section 4 *First-aid Measures*

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:**
No special action required
- **After skin contact:**
No special action required
Mechanical irritant, prolonged contact may cause skin abrasion
Seek medical attention if needed
- **After eye contact:**
Immediately remove contact lenses if possible.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
No special action required
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
Not applicable
- **Indication of any immediate medical attention and special treatment needed**
No specific treatment required

Section 5 *Fire-fighting Measures*



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- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents :** None
- **Special hazards arising from the substance or mixture** No special exposure hazards known arising from the product itself, combustion products, or resulting gases.
- **Advice for firefighters**
- **Protective equipment:**
Does not require any particular methods.
Use appropriate protective equipment
- **Additional information** No additional information available.

Section 6 *Accidental Release Measures*

- **Personal precautions, protective equipment and emergency procedures**
Limit dust formation, use disposable (P2 minimum) dust protection mask
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Pick up mechanically.
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

Section 7 *Handling and Storage*

- **Handling:**
- **Precautions for safe handling**
Prevent formation of dust.
Any deposit of dust which cannot be avoided must be regularly removed. Use only in well ventilated areas.
Avoid breathing dust.
Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Further information about storage conditions:**
- **Specific end use(s)** No further relevant information available.

Section 8 *Exposure Controls/Personal Protection*

- **Additional information about design of technical systems:** No further data; see item 7.

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- **Control parameters:**
- **Components with limit values that require monitoring at the workplace:**

409-21-2 Silicon Carbide

	8 hours TWA (mg/m3)	
	Inhalable (total) dust	Respirable dust
France	10	5
Germany	10	3
USA (ACGIH)	10	3

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**



- **General protective and hygienic measures:**
Provide adequate ventilation. Mechanical ventilation may be required. Do not eat, drink or smoke during work. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The listed protective equipment is a recommendation. A risk assessment of the actual risk may lead to other requirements.
- **Eye/Face protection**
Eye protection: Wear approved safety goggles
- **Skin protection**
Hand protection: Use gloves suitable for the work. The product is solid and cannot penetrate normal glove materials.
Skin protection (other than the hands): Wear appropriate protective clothing to protect against skin contact.
- **Respiratory protection**
Respiratory protection: Use mask with N95, FFP2 or FFP3 filter in case of dust formation

Section 9 *Physical and Chemical Properties*

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Granulate
Color: Black or Green

- **Odor:** Odorless

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· Solubility in / Miscibility with Water:	Insoluble.
· Specific Gravity	Value: ~3.2 g/cm ³
· Bulk Density	Value: 700 – 1700 kg/m ³
· Flash Point	Not applicable
· Explosive properties	Not applicable
· Explosion Limit	Not applicable
· Spontaneous combustibility	Not applicable
· Oxidizing properties	Not applicable

Section 10 *Stability and Reactivity*

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- **Reactivity**
Not reactivity hazards
 - **Chemical stability**
The material is stable under normal temperature conditions
 - **Possibility of hazardous reactions**
No hazardous reactions known
 - **Conditions to avoid** Not applicable
 - **Incompatible materials:** Not applicable
 - **Hazardous decomposition products:** Not applicable

Section 11 *Toxicological Information*

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- **Information on toxicological effects:** No hazardous effects known, if used under normal conditions

“Non-fibrous forms of SiC, sometimes referred to as “angular” particles, are irregular in shape and occur as respirable and non-respirable particles. The non-fibrous forms of SiC have very low toxicity in humans and experimental animals. The TLV-TWA for non-fibrous forms is therefore set at the level of “poorly” soluble particles, not otherwise specified (PNOS), being 10 mg/m³ for inhalable particles, and 3mg/m³ for respirable particles.” (ACGIH toxicology review 2001)

Acute toxicity: No harmful effects identified
Irritation: No harmful effects identified
Corrosivity: No harmful effects identified
Sensitisation: No harmful effects identified
Repeated dose toxicity: No harmful effects identified
Carcinogenicity: No harmful effects identified
Mutagenicity: No harmful effects identified
Toxicity for reproduction: No harmful effects identified

Section 12 *Ecological Information*

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- **Toxicity:** No harmful effects identified, based on available data
- **Persistence and degradability**
Chemically inert and insoluble in water; separation by mechanical processes (sedimentation, filtration, etc...)
- **Bioaccumulative potential** No potentials known
- **Mobility in soil** No environmental problems known
- **Other adverse effects** NO environmental problems expected if handled in accordance with standard industrial practice

Section 13 *Disposal Considerations*

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- **Waste treatment methods**
Not classified as hazardous waste; observe local by-laws
 - **Packaging:** Packaging has to be emptied entirely; recycling of used packaging is recommended
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Section 14 *Transport Information*

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- **UN-Number**
 - DOT, ADR, ADN, IMDG, IATA Not Regulated
 - **UN proper shipping name**
 - DOT, ADR, ADN, IMDG, IATA Not Regulated
 - **Transport hazard class(es)**
 - DOT, ADR, ADN, IMDG, IATA
 - **Class** Not Regulated
 - **Packing group**
 - DOT, ADR, IMDG, IATA Not Regulated
 - **Environmental hazards:**
 - **Marine pollutant:** No
 - **Special precautions for user** Not applicable.
 - **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
 - **UN "Model Regulation":**

Section 15 *Regulatory Information*

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- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
SiC is not classified as a hazardous substance

Labeling according to 67/548/EEC, 1999/45/EC, Regulation EC 1272/2008 and OSHA GHS (US) is not required. All ingredients are listed on TSCA (Toxic Substance Control Act).

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None of the substances are listed in Proposition 65 (California)

Chemical Safety Assessment:

Not applicable

Section 16 *Other Information*

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision:** 6/29/2015