



SDS

Safety Data Sheet

SDS-B4C

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BORON CARBIDE POWDER B4C

MATERIAL IDENTIFICATION

Corporate Number	B4C		
Manufacturer/Distributor	Feldco International 12402 Circula Panorama Santa Ana, CA 92705		
Phone Number	Product Information	(714) 602-2415	
Trade Names and Synonyms	Boron Carbide		
CAS Name	BORON CARBIDE		
CAS Number	12069-32-8		
Formula	B ₄ C		
TSCA Inventory status	Reported/Included		

COMPONENTS

Material	CAS Number	Percent
BORON CARBIDE	12069-32-8	min 89
Analysis value:		
	B	min. 70.0
	C	min. 19.0
	B ₂ O ₃ - 1303-86-2	max. 1.0
	Fe - 7439-89-6	max. 0.3
	O - 7782-44-7	max. 1.0
	N - 7727-37-9	max. 2.0
	Si - 7440-21-3	max. 0.3

PHYSICAL DATA

Water Solubility	Insoluble
Odor	Odorless
Form	Granular material or powder
Color	Black
Specific Gravity	2.51
Particle Size	from 8 to 1200 mesh

#HAZARDOUS REACTIVITY

Instability	Stable
Polymerization	Polymerization will not occur
Incompatibility	None

FIRE AND EXPLOSION DATA

Fire and Explosion Hazards	Boron Carbide is a non-flammable substance. The Fines powder particles of average grain size approximately 1µm and finer can ignite and smoldering fire can spread. Burning test result for grit 1500 (<5µm) shows BZ4; dust explosion test shows St 0-1 (according to VD1/2263).
Extinguishing Media	Conventional extinguisher, such as water, powder, foam).
Special Fire Fighting Instructions	None.

HEALTH HAZARD INFORMATION

Contact with particles may cause mechanical irritation of the skin with itching, redness, swelling, or rash; or irritation of the eyes with tearing, pain, or blurring of vision. Inhalation of dried-down material may cause irritation of the upper respiratory passages.

Carcinogenicity	None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen
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Exposure Limits

TLV (ACGIH)	None Established		
PEL (OSHA)	Particulates Not Otherwise Regulated		
	6 mg/m3	8 Hr TWA	General Dust
	Nuisance Dust		
	TLV (ACGIH):	10 mg/m3	General Dust

Safety Precautions	Avoid breathing dust.
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#FIRST AID**INHALATION**

No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. However, if symptoms occur, consult a physician.

SKIN CONTACT

The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

No specific intervention is indicated as compound is not likely to be hazardous by ingestion. However, if symptoms occur, contact a physician.

PROTECTION INFORMATION**Generally Applicable Control Measures and Precautions**

Good general ventilation should be provided to keep dust concentration from dried-down material below the recommended exposure limits.

Personal Protective Equipment

EYE/FACE: Safety glasses with side shields.
RESPIRATORS: If exposure limits are exceeded, wear NIOSH/MSHA approved respiratory protection.

DISPOSAL INFORMATION

Spill, Leak, or Release

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Recover undamaged and minimally contaminated material for reuse or reclamation with industrial vacuum cleaner.

Waste Disposal

Can be precipitated mechanically in sewage plants. Can be disposed of with household refuse in conformity with local regulations.

SHIPPING INFORMATION

Not regulated as a hazardous material by DOT or IMO.

STORAGE CONDITIONS

Keep container closed; protect from damage.

TITLE III HAZARD CLASSIFICATION

Acute	No
Chronic	No
Fire	No
Reactivity	No
Pressure	No

LISTS:

Extremely Hazardous Substance	- No
CERCLA Hazardous Substance	- No
Toxic Chemical	- No

This data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

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