



**SAINT-GOBAIN**  
GRAINS & POWDERS

#0683

**MATERIAL SAFETY DATA SHEET**

Saint-Gobain Grains & Powders  
Warren/Amplex Superabrasives  
1401 E. Lackawanna St.  
Olyphant, PA 18447  
Emergency Contact: Infotrac Inc.  
Tel. No.: (800) 535-5053

Flammability: 0 Health: 0  
Reactivity: 0 Hazard: 0

Rating consistent with NFPA code

Date: 08/31/04  
SUPERSEDES: 08/13/01

**SECTION I - PRODUCT NAME -**  
**PRODUCT TRADE NAME OR COMMON NAME: - NORBIDE BORON CARBIDE**  
Code 9260, 9263, 9266, 9270

**CHEMICAL FAMILY OR PRODUCT TYPE:** Refractory Carbide

**SECTION II - COMPOSITION**

CHEMICAL NAME	APPRX %	COMMON NAME	REG* (Y/N)	CAS #	P.E.L. (mg/m <sup>3</sup> )	TLV (mg/m <sup>3</sup> )	CARCIN. (Y/N)
B/C	98+	Boron Carbide	N	12069-32-8	10	10	N

All ingredients are listed under TSCA

\*Materials are regulated by OSHA 29 CFR 1910.1200, Hazard Communication Standard, and/or the Massachusetts General Law Chapter 111F, Right to Know Regulations

**SECTION III - PHYSICAL AND CHEMICAL DATA**

<b>BOILING POINT:</b> 3500 °C	<b>MELTING POINT:</b> 2450 °C	<b>SPECIFIC GRAVITY:</b> 2.5
<b>VAPOR PRESSURE:</b> N/A	<b>% VOLATILE BY VOL.:</b> N/A	<b>VAPOR DENSITY:</b> N/A
<b>EVAPORATION RATE:</b> N/A	<b>Solubility in Water:</b> Insoluble	<b>ALCOHOL SOL.:</b> None
<b>Solubility in other solvent:</b> None		<b>Appearance and odor:</b> Granular, black, no odor

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point:</b> N/A (Method used): None	<b>Flammable limits:</b> LEL N/A UEL N/A
<b>Extinguishing Media:</b> NAIF	
<b>Special Fire Fighting Procedures:</b> None	
<b>Explosion Potential:</b> Dust from very fine powders may be ignitive with spark.	

**SECTION V - HEALTH, FIRST AID AND MEDICAL DATA**

Primary Route(s) of Entry	Acute and Chronic Health effects and effects of overexposure	FIRST AID AND MEDICAL INFORMATION
Inhalation	Acute: Coughing, shortness of breath Chronic: May affect breathing capacity.	Remove to fresh air. Apply artificial respiration as needed. Obtain first aid or medical assistance.
Ingestion	No known adverse effects, but ingestion not recommended.	Obtain first aid or medical assistance, if needed.
Skin contact & absorption	Not absorbed through skin, may cause abrasions.	Obtain first aid or medical assistance if needed.
Eye	May irritate eyes.	Irrigate with large amounts of water, obtain medical assistance, if needed.
Other potential health risks	NAIF	NAIF

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**SECTION VI - CORROSIVITY AND REACTIVITY DATA**

STABILITY: UNSTABLE: STABLE: X POLYMERIZATION: May occur Will Not Occur X
INCOMPATIBILITY (MATERIALS TO AVOID): Inert
DECOMPOSITION PRODUCTS: Inert.
CONDITIONS TO BE AVOIDED: Inert

**SECTION VII - STORAGE, HANDLING AND USE PROCEDURES**

NORMAL STORAGE AND HANDLING: Handle with adequate ventilation for nuisance dust. See OSHA 29CFR1910.94 (Ventilation) and 29CFR1910.1000 (Air Contaminants).
NORMAL USE: Same as above
STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Normal cleanup procedures. Respirators may be required.
WASTE DISPOSAL METHOD: Standard landfill methods consistent with applicable Federal, State and local law

**SECTION VIII - PERSONAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION (SPECIFY TYPE): As needed, approved dust respirator. See OSHA 29CFR1910.134	
VENTILATION	Local: Recommended
	Mechanical (General): Recommended
	Other: N/AIF
PROTECTIVE GLOVES:	As desired by user.
EYE PROTECTION:	Recommended. See OSHA 29CFR1910.133
OTHER EQUIPMENT:	N/AIF
MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT: See Section VII and VIII	

**SECTION IX - SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: None
OTHER PRECAUTIONS: N/AIF

**FOR COMPANY USE**  
THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE TAKEN FROM SOURCES BELIEVED TO BE ACCURATE AS OF THE DATE HEREOF; HOWEVER SAINT-GOBAIN INDUSTRIAL CERAMICS INC. MAKES NO WARRANTY WITH RESPECT TO THE ACCURACY OF THE INFORMATION OR THE SUITABILITY OF THE RECOMMENDATIONS, AND ASSUMES NO LIABILITY TO ANY USER THEREOF.

\*\* N/AIF - NO APPLICABLE INFORMATION FOUND

\*\*\* N/A - NOT APPLICABLE