



MATERIAL SAFETY DATA SHEET
COMPLIES WITH 29 CFR 1910.1200.
OSHA HAZARD COMMUNICATION RULE

CHEMICAL IDENTITY

LABEL IDENTITY	BORON CARBIDE
CHEMICAL NAME/SYNONYMS	BORON CARBIDE
FORMULA	B₄C
CHEMICAL FAMILY	NON METAL CARBIDE
CAS REGISTRY NUMBER	12069-32-8
MOLECULAR WEIGHT	55.29
HAZARDOUS INGREDIENTS	BORON CARBIDE
%: 100	TLV: 10mg/m³ OSHA PEL: NOT SET
	(FOR BORON AS OXIDE)

PHYSICAL AND CHEMICAL PROPERTIES

COLOR, FORM AND ODOR	Black crystals, powder, no odor
BOILING POINT	3500
DENSITY (gm/cc)	2.6
VAPOR PRESSURE @ 20°	NA
% VOLATILE BY VOLUME (%)	NA
REACTION WITH WATER	None
EVAPORATION RATE (H ₂ O=1)	NA
SOLUBILITY IN WATER	Insoluble
MELTING POINT	2350
OTHER	ND

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT METHOD USED	NA
AUTOIGNITION TEMPERATURE (°C)	NA
FLAMMABILITY	Non-combustible
EXTINGUISHING MEDIA	None
SPECIAL FIRE FIGHTING PROCEDURES	None
UNUSUAL FIRE & EXPLOSION HAZARDS	None



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HEALTH HAZARD INFORMATION

TOXICITY DATA: **ND**

HMIS RATING:

HEALTH: **1** FLAMMABILITY: **0** REACTIVITY: **0** PERSONAL PROTECTION: **B**

ROUTES OF ENTRY

INHALATION: **Yes**
SKIN: **No**
INGESTION: **No**

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: **None**

EFFECTS OF OVEREXPOSURE (acute and chronic):

INHALATION **Would be considered nuisance dust.**

DERMAL/EYE CONTACT **Irritation and corrosivity none**

OTHER **None**

CARCINOGENICITY: **None** NTP: IARC MONOGRAPHS: OSHA REGULATE:

EMERGENCY FIRST AID PROCEDURES:

INGESTION **Induce vomiting.**

INHALATION **Remove victim to fresh air.**

SKIN CONTACT **Flush with soap and water.**

EYE CONTACT **Flush eyes with water for 15 minutes.**

REACTIVITY DATA

STABILITY	Stable
CONDITIONS CONTRIBUTING TO UNSTABILITY	ND
INCOMPATIBILITY (MATERIALS TO AVOID)	ND
HAZARDOUS DECOMPOSITION PRODUCTS	None
HAZARDOUS POLYMERIZATION	Will Not Occur
CONDITIONS TO AVOID	ND



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SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Vacuum equipped with HEPA filter.

WASTE DISPOSAL METHOD:

Consult federal, state and local regulations for proper disposal.

SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION	Any respirator approved for dust, fumes and mists. (if excessive dust is generated)
LOCAL EXHAUST	Recommended
MECHANICAL (general)	Use with adequate ventilation
SPECIAL	ND
OTHER	ND
PROTECTIVE GLOVES	No special glove needed
EYE PROTECTION	Safety glasses
OTHER PROTECTIVE EQUIPMENT	None

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE:

Wash thoroughly after handling. Keep container closed.

TRANSPORTATION REQUIREMENTS	DOT CLASS:	Not Classified
	UN NUMBER:	N. C.
	IMCO CLASS:	N. C.
	OTHER:	ND

PRECAUTIONARY LABELING **NONE**

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NA= NOT APPLICABLE

ND= NO DATA FOUND