

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-100/10043-11-5.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
10043-11-5  
**Code:**  
M

**RTECS:**

**Code:**  
X

**Name:**  
BORON NITRIDE

**Other REC Limits:**  
NONE RECOMMENDED

**OSHA PEL:**  
NOT ESTABLISHED  
**Code:**  
M

**OSHA STEL:**  
ACGIH TLV: NOT ESTABLISHED  
**Code:**  
2 OSHA STEL:

**ACGIH TLV:**  
NOT ESTABLISHED  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
A NIOSH-APPROVED RESPIRATOR WITH FILTER CARTRIDGES APPROVED FOR DUST/FUMES/MISTS SHOULD BE WORN AT ALL TIMES DURING THE THERMAL SPRAY PROCESS. RESPIRATORS MAY ALSO BE WORN WHEN PRODUCT HANDLING GENERATES DUST.

**Ventilation:**  
LOCAL EXHAUST VENTILATION SHOULD BE USED TO CONTROL EXPOSURE TO AIRBORNE FUMES OR DUST WHENEVER POSSIBLE.

**Protective Gloves:**  
ALUMINIZED (FOR PLASMA SPRAY)/RUBBER

**Eye Protection:**  
LENS SHADES #(5-11) FOR SPRAYING/GOGGLES

**Other Protective Equipment:**  
Equipment EYE WASH STATION, SAFETY SHOWER, APRON (ALUMINIZED), EAR PROTECTION (TO AVOID EXCESSIVE NOISE)

**Work Hygienic Practices:**  
OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

**Supplemental Safety and Health:**  
N/P

## Health Hazards Data

**LD50LC50Mixture:**  
LD50 (ORAL RAT) IS UNKNOWN.

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
NO

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
YES

**IARC:**  
YES

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
TARGET ORGANS:EYE, SKIN, LIVER, KIDNEYS, RESPIRATORY TRACT. ACUTE- INHALATION MAY CAUSE RESPIRATORY TRACT IRRITATION/ULCERATION. EYE CONTACT MAY CAUSE IRRITATION/BURNS. SKIN CONTACT MAY CAUSE DERMATITIS, SENSITIZATION/CHROME LESIONS. HARMFUL/FATAL IF INGESTED. CHRONIC- DERMATITIS, LUNG DISEASES, LIVER & KIDNEYS DAMAGE.

**Explanation Of Carcinogenicity:**  
CONTAINS NICKEL AND CHROMIUM.

**Signs And Symptoms Of Overexposure:**  
IRRITATION, SKIN DERMATITIS OR ECZEMA, COUGH, WHEEZING AND SHORTNESS OF BREATH, DECREASED PULMONARY FUNCTION, HEADACHE, NAUSEA, VOMITING, EPIGASTRIC PAIN, WEAKNESS, CONVULSIONS, RESPIRATORY AND SKIN SENSITIZATION, BURNS

**Medical Cond Aggravated By Exposure:**  
INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT, LIVER, KIDNEYS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

**First Aid:**  
OBTAIN MEDICAL ATTENTION IF NEEDED. EYES:FLUSH WITH WATER FOR 15 MINUTES. KEEP EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. INHALATION:MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. INGESTION:CALL PHYSICIAN IMMEDIATELY.

**Spill Release Procedures:**  
5 WEAR PROTECTIVE EQUIPMENTS. VENTILATE AREA. VACUUM LOOSE POWDER ONLY WITH VACUUMS EQUIPPED WITH HEPA FILTRATION. WIPE AREA CLEAN. DO NOT USE WATER FOR CLEAN UP OPERATION. DO NOT SWEEP. PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. AVOID RAISING DUST.

**Neutralizing Agent:**  
NOT RELEVANT

**Waste Disposal Methods:**  
PRIOR TO DISPOSAL, CONSIDER IF MATERIAL HAS RECOVERY VALUE. EMPTY PRODUCT CONTAINERS, PRODUCT WASTE AND CLEANING MEDIA SHOULD BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. PREVENT WASTE FROM CONTAMINATING ENVIRONMENT.

**Handling And Storage Precautions:**  
STORE IN A DRY, WELL-VENTILATED PLACE AWAY FROM INCOMPATIBLES. KEEP CONTAINER TIGHTLY CLOSED. STORE IN A MANNER TO MINIMIZE PUNCTURES TO CONTAINERS.

**Other Precautions:**  
AVOID INGESTION, INHALATION AND EXCESSIVE SKIN CONTACT. AVOID BREATHING OF FUMES OR DUST. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING AND DRINKING. REMOVE CONTAMINATED CLOTHING. LAUNDRY BEFORE REUSE.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
NONE

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/R

**Lower Limits:**  
N/R

**Upper Limits:**  
N/R

**Extinguishing Media:**  
USE CLASS D FIRE EXTINGUISHER.

**Fire Fighting Procedures:**  
TREAT AS A METALLIC FIRE. WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

**Unusual Fire/Explosion Hazard:**  
FINE METAL DUSTS ARE FLAMMABLE AND MAY EXPLODE WHEN EXPOSED TO HEAT, FLAME OR OXIDIZERS. ALUMINUM IS A FLAMMABLE SOLID. DO NOT USE WATER. 6

## Physical/Chemical Properties

**HCC:**  
V7

**NRC/State LIC No:**  
NOT RELEVANT

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
N/R

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
UNKNOWN

**Decomp Temp:**

**Decomp Text:**  
UNKNOWN 7

**Vapor Pres:**  
N/R

**Vapor Density:**  
N/R

**Volatile Org Content %:**

**Spec Gravity:**  
4.0

**VOC Pounds/Gallon:**

**PH:** N/R

**VOC Grams/Liter:**

**Viscosity:**  
NOT RELEVANT

**Evaporation Rate & Reference:**  
NOT RELEVANT

**Solubility in Water:**  
INSOLUBLE

**Appearance and Odor:**  
POWDER - NO ODOR

**Percent Volatiles by Volume:**  
N/R

**Corrosion Rate:**  
UNKNOWN

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
STRONG IGNITION SOURCES, WELDING ARCS, MOISTURE

**Materials To Avoid:**  
STRONG OXIDIZING AGENTS, STRONG ACIDS, STRONG BASES, WATER, SULFUR, COMBUSTIBLES, ALDEHYDES, HALOGENS, NI NITRATE

**Hazardous Decomposition Products:**  
WELDING FUMES (OXIDES OF METAL BEING WELD) GASES SUCH AS OZONE, CARBON MONOXIDE, CARBON DIOXIDE, NITRIC ACID, ALCOHOL

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
NOT RELEVANT

## Toxicological Information

**Information:**N/P

## MSDS Transport Information

**Information:**N/P

## Regulatory Information

**Sara Title III Information:** N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

## Other Information

**Other Information:**N/P