

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

ACGIH STEL:

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:

OBTAI 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 FILTERATION. 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, PROTECT 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. LAUNDER BEFORE REUSE.

Fire and Explosion Hazard Information

Flash Point Method:

N/P

Flash Point:**Flash Point Text:**

NONE

Autoignition Temp:

N/R

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

V7:

V7

NRC/State LIC No:

NOT RELEVANT

Net Wt For Ammo:

0

Boiling Point:

N/R

B.P. Text:

N/R

Melt/Freeze Pt:

UNKNOWN

Decomp Temp:

UNKNOWN

Decomp Text:

UNKNOWN

Vapor Pres:

N/R

N/Vapor Density:

N/R

Volatile Org Content %:

0

Spec Gravity:

4.0

VOC Pounds/Gallon:

0

PH:

N/R

VOC Grams/Liter:

0

Viscosity:

NOT RELEVANT

Evaporation Rate & Reference:

NOT RELEVANT

Solubility in Water:

INSOLUBLE

Appearance and Odor:

POWDERS - NO ODOR

Percent Volatiles by Volume:

N/R

Corrosion Rate:

UNKNOWN

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Reactivity Data

Stability Indicator:

YES

Stability Condition To Avoid:

STRONG IGNITION SOURCES, WELDING ARCS, MOISTURE

Hazard