



## MATERIAL SAFETY DATA SHEET

MSDS #: 18307

Date of Revision: 8/26/2010

### SECTION 1 -- PRODUCT IDENTIFICATION

IDENTITY (Trade Name): MEGABRITE Non-Woven, Unitized and Convolute Wheels

FAMILY/CHEMICAL NAME: Ceramic Abrasive

PRODUCT USE: Mold and die polishing.

MANUFACTURER/SUPPLIER: BORIDE Engineered Abrasives  
2615 Aero Park Drive  
Traverse City, MI 49686

ORIGINAL ISSUE DATE: July 2010

TELEPHONE NUMBER: (231) 922-2121

24-HOUR EMERGENCY NUMBER: (231) 922-1959

### SECTION 2 -- INGREDIENTS

SUBSTANCE DESCRIPTION	PERCENT	OSHA PEL	ACGIH TLV	CAS#
Aluminum Oxide *	40.0 – 60.0	15mg/m <sup>3</sup>	10mg/m <sup>3</sup> dust	1344-28-1
Silicon Carbide *	40.0 – 60.0	15mg/m <sup>3</sup>	10mg/m <sup>3</sup> dust	409-21-2

The grinding wheel may be comprised of 1 or more of the above abrasives. The chemicals listed below may be part of the bonding system

Nylon	5.0 – 25.0	N/A	N/A	63428-83-1
Titanium Dioxide *	<5.0	15mg/m <sup>3</sup>	10mg/m <sup>3</sup> dust	13463-67-7
Polyurethane Cured Resin	5.0 – 35.0	N/A	N/A	N/A

- \* Aluminum Oxide is at least 92% pure, usually containing other metallic oxides as impurities.
- \* Silicon Carbide is at least 97% pure, usually containing other metallic oxides as impurities.
- \* Titanium Dioxide is present as one of the impurities in the Aluminum Oxide grain.

HMIS HEALTH -1 FLAMMABILITY -0 REACTIVITY-0 PERSONAL PROTECTION – See Section 6

### SECTION 3 -- HAZARDS IDENTIFICATION

#### INHALATION ACUTE EXPOSURE EFFECTS

During grinding – Dust may cause coughing, shortness of breath

#### EYE CONTACT ACUTE EXPOSURE EFFECTS

Dust may irritate eyes.

#### SKIN CONTACT ACUTE EXPOSURE EFFECTS

During grinding – May experience skin irritation from dust.

#### INGESTION ACUTE EXPOSURE EFFECTS

Get medical attention.

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, BORIDE Engineered Abrasives assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the material as supplied to the user.



## MATERIAL SAFETY DATA SHEET

MSDS #: 18307

Date of Revision: 8/26/2010

### SECTION 4 -- FIRST AID MEASURES

#### INHALATION

Classified as a nuisance dust. Remove to fresh air. Get medical attention if needed.

#### SKIN CONTACT

Wash with soap and water.

#### EYE CONTACT

Irritant. Treat as a foreign body in the eye. Flush eyes with water for 15 minutes.

#### INGESTION

Non-Toxic, but ingestion should be avoided

### SECTION 5 -- HANDLING AND STORAGE

#### HANDLING

Visually inspect all wheels before mounting, use proper flanges, and check machine speed against the established maximum safe operating speed marked on the wheel. Always use a safety guard covering a least one-half of the grinding wheels, and allow the wheel to run at operating speed for at least one minute before grinding.

#### STORAGE

Abrasive wheels must be protected while awaiting use. Wheels should not be exposed to extreme temperatures, humidity, water or solvents.

### SECTION 6 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

#### VENTILATION PROTECTION

Good local exhaust ventilation is essential for dry grinding operations as per ANSI 788.2 OSHA 29 CFR1910.94 (ventilation)

#### RESPIRATORY PROTECTION

Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH approved respirator.

#### EYE PROTECTION

Wear protective eyeglasses, per OSHA eye and face protection regulation (29 CFR 1910.133). Contact lenses are not eye protective devices.

#### OTHER PROTECTION

Use of this product may create elevated sound levels. Hearing protection should be worn where required (see OSHA 29 CFR 1910.95 and other applicable regulations).

### SECTION 7 -- PHYSICAL AND CHEMICAL PROPERTIES

DENSITY: 0.3 TO 1.5gm/cm<sup>3</sup>

ODOR: No Detectable Odor

APPEARANCE: Light or Medium Gray, Brown, or Maroon colored, Porous Solid. Non-Woven nylon fibers impregnated with abrasive particles bonded together with cured polyurethane resin.

SOLUBILITY IN WATER: Insoluble

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, BORIDE Engineered Abrasives assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the material as supplied to the user.



## MATERIAL SAFETY DATA SHEET

MSDS #: 18307

Date of Revision: 8/26/2010

### SECTION 8 -- STABILITY AND REACTIVITY

#### INCOMPATIBILITY

N/A

#### DECOMPOSITION

In use, dust and decomposing odors may be generated.

### SECTION 9 -- OTHER INFORMATION

#### TOXICOLOGICAL INFORMATION

#### INHALATION CHRONIC EXPOSURE EFFECTS

Chronic overexposure may affect breathing capacity

#### ECOLOGICAL INFORMATION

None available

#### CHEMICAL FATE

Does not appreciably decay.

#### WASTE DISPOSAL

Use standard landfill methods consistent with applicable Federal, State, and local laws.

#### TRANSPORT INFORMATION

#### HAZARD CLASS

This product is not hazardous as defined by the Department of Transportation. (USA)

#### REGULATORY INFORMATION

#### SARA Title III Section 313

This product does not contain regulated levels of any toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372.

#### PROPOSITION 65

This products does not contain any substances/compound(s) known to cause cancer and/or reproductive toxicity and subject to warning and discharge under the "Safe Drinking Water and Toxic Enforcement Act of 1986", for the State of California.

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, BORIDE Engineered Abrasives assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the material as supplied to the user.