

SAFETY DATA SHEET

REVISION: 08/26/2015

8400 Green Meadows Dr. P.O. Box 545 Lewis Center, OH 43035

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METAL BOND GRINDING PRODUCTS

DIAMOND OR CUBIC BORON NITRIDE

1. PRODUCT & COMPANY INFORMATION

1.1 PRODUCT IDENTIFIER(S)

PRODUCT NAME: METAL BOND GRINDING PRODUCTS

DIAMOND OR CUBIC BORON NITRIDE

PRODUCT NUMBER(S): VARIOUS

1.2 COMPANY INFORMATION

ABRASIVE TECHNOLOGY, INC 8400 GREEN MEADOWS DR. LEWIS CENTER, OHIO 43035

TELEPHONE 740-548-4100 (8:00 am TO 5:00 pm EST)

FAX 740-548-7617

1.3 EMERGENCY PHONE NUMBERS

NORTH AMERICA (24 HRS) CHEMTREC 800-424-9300 OUTSIDE NORTH AMERICA (COLLECT) 703-527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Signal word: Warning!

Hazard statements

H317 – May cause an allergic skin reaction

H332 + H351 – Harmful if inhaled; Suspected of causing cancer

H335 – May cause respiratory irritation

2.2 GHS Label elements, including precautionary statements

Pictograms







Hazard statements

H317 – May cause an allergic skin reaction

H332 + H351 – Harmful if inhaled; Suspected of causing cancer

H335 – May cause respiratory irritation

Precautionary statements

P201 – Obtain special instructions before use.

P202 – Do not handle until all safety precautions have been read and understood

P260 – Do not breathe dust/fume(s)/gas/mist/vapors/spray

P264 – Wash thoroughly after handling

P270 – Do not eat/drink/smoke when using this product

P272 – Contaminated work clothing should not be allowed out of the workplace

P280 – Wear protective gloves/clothing/eye protection/face protection

P302 + P352 – If on skin: Wash with plenty of soap and water

P308 + P313 –If exposed or concerned: Get medical attention

P332 + P313 – If skin irritation occurs: Get medical attention

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

RESIN BONDED WHEELS MAY CONTAIN ANY OF THE FOLLOWING INGREDIENTS, BUT NOT NECESSARILY ALL OF THEM. TAKE APPROPRIATE PRECAUTIONS.

TRECITO TIOTIO						
		SARA 313			ACGIH	
CHEMICAL NAME	COMMON NAME	<u>Y/N</u>	CAS#	OSHA PEL	<u>TLV</u>	CARCINOGEN
INDUSTRIAL DIAMOND	***	N	7782-40-3	***	***	N/CLASS 4
CUBIC BORON NITRIDE	CBN	N	10043-11-5	***	***	N/CLASS 4
SILICON CARBIDE	***	N	409-21-2	15 mg/m ³	10 mg/m³	N/CLASS 4
FERRIC OXIDE	IRON OXIDE	N	1309-37-1	***	5 mg/m³	N/CLASS 4
GRAPHITE	***	N	7882-42-5	***	2 mg/m³	N/CLASS 4
COBALT	***	N	7440-78-4	0.05 mg/m³	***	Y/CLASS 3
COPPER	***	N	7440-50-8	***	1 mg/m³	N/CLASS 4
SILVER	***	N	7440-22-4	0.01 mg/m³	***	N/CLASS 4
NICKEL	***	N	7440-02-0	1 mg/m³	1 mg/m³	Y/CLASS 2B
TIN	***	N	7440-31-5	***	***	N/CLASS 4

COMPOSITION IS PROPRIETARY.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution. Remove contacts if present and able to do so easily. Continue rinsing with water.

4. FIRST AID MEASURES (CONTINUED)

4.1 Description of first aid measures

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

<u>6.1 Personal precautions, protective equipment and emergency</u> procedures

Avoid dust formation as some of the dust(s) can be flammable. Avoid breathing vapors, mist or gas. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Wear protective clothing and PPE. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

For industrial or professional use only. Damaged product can break apart during use and cause serious injury to face or eyes. Check product for damage such as cracks or nicks prior to use. Replace if damaged. Always wear eye and face protection when working at sanding or grinding operations or when near such operations. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Use personal protective equipment (gloves, respirators, etc.) as required. Combustible dust may form by action of this product on another material (substrate). Dust generated from the substrate during use of this product may be explosive if in sufficient concentration with an ignition source. Dust deposits should not be allowed to accumulate on surfaces because of the potential for secondary explosions.

7.2 Conditions for safe storage, including any incompatibilities

No special storage requirements.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

<u>Please see information on "Occupational Exposure Limits" in the "COMPOSITION/INFORMATION ON INGREDIENTS" in Section 3.0</u>

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

PERSONAL PROTECTIVE EQUIPMENT

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

8.1 Control parameters

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearanceb) Odorno data available

c) Odor Threshold no data available d) pH no data available

e) Melting point/freezing point no data available

f) Initial boiling point and

Boiling range no data available g) Flash point not applicable h) Evaporation rate no data available i) Flammability (solid, gas) no data available

9. PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

9.1 Information on basic physical and chemical properties

j) Upper/lower flammability or

explosive limits no data available k) Vapor pressure no data available l) Vapor density no data available m) Relative density no data available

n) Water solubility insoluble

o) Partition coefficient:

N-octanol/water no data available p) Auto-ignition temperature no data available q) Decomposition temperature no data available r) Viscosity no data available s) Explosive properties no data available t) Oxidizing properties no data available

9.2 Other safety information no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

This material is considered to be non reactive under normal use conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Dust from grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

Skin Contact:

Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eve Contact:

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion. Dust created by grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:

No known health effects. May cause additional health effects (see below).

Skin Contact:

Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion. Dust created by grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:

No known health effects. May cause additional health effects (see below).

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

Hard Tissue Effects: Signs/symptoms may include color changes in the teeth and nails; changes in development of bone, teeth or nails; weakening of the bones; and/or hair loss.

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

Carcinogenicity: Contains a chemical or chemicals which can cause cancer.

Ingredient	CAS No.	Class Description	Regulation
NICKEL COMPOUNDS	7440-02-0	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Nickel	7440-02-0	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Nickel	7440-02-0	Anticipated human carcinogen	National Toxicology Program Carcinogens

Additional Information:

This document covers only the Abrasive Technology, Inc. product(s). For complete assessment, when determining the degree of hazard, the material being abraded must also be considered.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
Copper	Dermal	Rat	LD50 > 2,000 mg/kg
Copper	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 5.11 mg/l
Copper	Ingestion	Rat	LD50 > 2,000 mg/kg
Nickel	Dermal		LD50 estimated to be > 5,000 mg/kg
Nickel	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 2.55 mg/l
Nickel	Ingestion	Rat	LD50 > 9,000 mg/kg
Silicon Carbide Mineral	Dermal	Rat	LD50 > 2,000 mg/kg
Silicon Carbide Mineral	Ingestion	Rat	LD50 > 2,000 mg/kg
Aluminum Oxide Mineral	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminum Oxide Mineral	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
Aluminum Oxide Mineral	Ingestion	Rat	LD50 > 5,000 mg/kg
Iron	Dermal		LD50 estimated to be > 5,000 mg/kg
Graphite	Ingestion	Rat	LD50 > 2,000 mg/kg
Iron	Ingestion	Rat	LD50 30,000 mg/kg
Inorganic Fluoride	Dermal	Rabbit	LD50 > 2,100 mg/kg
Calcium Oxide	Ingestion	Rat	LD50 > 2,500 mg/kg
Inorganic Fluoride	Inhalation- Dust/Mist (4 hours)	Rat	LC50 4.5 mg/l
Inorganic Fluoride	Ingestion	Rat	LD50 5,000 mg/kg
Aluminum	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminum	Ingestion		LD50 estimated to be > 5,000 mg/kg
Aluminum	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > .888 mg/l
Titanium	Dermal		LD50 estimated to be > 5,000 mg/kg
Titanium	Ingestion		LD50 estimated to be > 5,000 mg/kg
Magnesium Oxide	Dermal	Professio nal judgeme nt	LD50 estimated to be 2,000 - 5,000 mg/kg
Magnesium Oxide	Ingestion	Rat	LD50 3,870 mg/kg
Carbon Black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon Black	Ingestion	Rat	LD50 > 8,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Copper	Rabbit	No significant irritation
Nickel	Rabbit	Minimal irritation
Silicon Carbide Mineral	Rat	No significant irritation
Aluminum Oxide Mineral	Rabbit	No significant irritation
Graphite	Rabbit	No significant irritation
Iron	Rabbit	No significant irritation
Calcium Oxide	Human	Corrosive
Inorganic Fluoride	Multiple animal species	No significant irritation
Aluminum	Rabbit	No significant irritation
Magnesium Oxide	Professio	No significant irritation

		nal	
		judgeme nt	
Carbon Black		Rabbit	No significant irritation
Caron Black		Kabbit	No significant irritation
Serious Eye Damage/Irritation		La	
Name		Species	Value
Copper		Rabbit	Mild irritant
Nickel		Rabbit	Mild irritant
Silicon Carbide Mineral		Professio	No significant irritation
		nal	
		judgeme	
Aluminum Oxide Mineral		nt Rabbit	No significant irritation
Graphite Graphite		Rabbit	No significant irritation
Iron		Rabbit	No significant irritation
Calcium Oxide		Rabbit	Corrosive
Inorganic Fluoride		Rabbit	Mild irritant
Aluminum		Rabbit	No significant irritation
Carbon Black		Rabbit	No significant irritation
Carbon Black		Kabbit	100 Significant III tation
Skin Sensitization		I a	Lv
Name		Species	Value
Nickel		Human	Sensitizing
Aluminum		Guinea pig	Not sensitizing
Respiratory Sensitization		I F'S	
Name		Species	Value Some positive data exist, but the data are not
			Value Some positive data exist, but the data are not sufficient for classification
Name Aluminum		Species	Some positive data exist, but the data are not
Name Aluminum		Species	Some positive data exist, but the data are not
Name Aluminum Germ Cell Mutagenicity Name		Species Human Route	Some positive data exist, but the data are not sufficient for classification Value
Name Aluminum Germ Cell Mutagenicity Name Aluminum Oxide Mineral		Species Human Route In Vitro	Some positive data exist, but the data are not sufficient for classification Value Not mutagenic
Name Aluminum Germ Cell Mutagenicity Name		Species Human Route	Some positive data exist, but the data are not sufficient for classification Value
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Name Aluminum Germ Cell Mutagenicity Name Aluminum Oxide Mineral Graphite Calcium Oxide Aluminum Magnesium Oxide Carbon Black Carbon Black Carcinogenicity Name	Route	Route In Vitro	Some positive data exist, but the data are not sufficient for classification Value Not mutagenic Some positive data exist, but the data are not sufficient for classification Not mutagenic Not mutagenic Not mutagenic Not mutagenic Some positive data exist, but the data are not sufficient for classification Value
Name Aluminum Germ Cell Mutagenicity Name Aluminum Oxide Mineral Graphite Calcium Oxide Aluminum Magnesium Oxide Carbon Black Carbon Black Carcinogenicity Name Nickel	Route Inhalation	Route In Vitro In vivo Species similar compou	Some positive data exist, but the data are not sufficient for classification Value Not mutagenic Some positive data exist, but the data are not sufficient for classification Not mutagenic Not mutagenic Not mutagenic Not mutagenic Some positive data exist, but the data are not sufficient for classification Value Carcinogenic
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Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Calcium Oxide	Inhalation	respiratory irritation	May cause respiratory irritation	Not available	NOAEL Not available	occupational exposure
Magnesium Oxide	Inhalation	respiratory system	All data are negative	Human	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Nickel	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.001 mg/l	13 weeks
Aluminum Oxide Mineral	Inhalation	pneumoconiosis pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Graphite	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Inorganic Fluoride	Inhalation	bone, teeth, nails, and/or hair	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.0005 mg/l	5 months
Inorganic Fluoride	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.00021 mg/l	90 days
Inorganic Fluoride	Ingestion	bone, teeth, nails, and/or hair	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.58 mg/kg/day	14 weeks
Aluminum	Inhalation	nervous system respiratory system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Carbon Black	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure

Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No adverse effects on aquatic organisms are expected. However, consideration must be given to potential environment effects of the base material being processed.

Ecotoxicity values:

Silicon Carbide: No data available.

Persistence and degradability: Biodegradation is not applicable to inorganic substances.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product - Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

Dispose in accordance with all local, state and national regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

14. TRANSPORT INFORMATION

DOT (US) IMDG IATA

Not dangerous goods Not dangerous goods Not dangerous goods

15. REGULATORY INFORMATION

<u>CERCLA Hazardous Substances (Section 103)/RQ:</u> This product is not subject to CERCLA release reporting. Many states have more stringent spill reporting requirements. Report spills in accordance will all applicable regulations.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: Toxic chemicals subject to the reporting requirements of 40 CFR

part372 (EPCRA): Copper 7440-50-8

Nickel 7440-02-0

SARA 311/312 Hazards: N – Fire Hazard

N – Sudden Release of Pressure

N – Reactivity
N – Acute Health
Y – Chronic Health

California Prop. 65 Components: This product contains the following chemicals known to the State of California to cause cancer or reproductive toxicity: Titanium dioxide (13463-67-7) 1-2% (cancer). Dust created from cutting, drilling or grinding may contain chemicals known to cause cancer, birth defects or other reproductive harm.

EPA TSCA Inventory: This product meets the definition of an article and is exempt from the TSCA inventory requirements.

16. OTHER INFORMATION

HMIS RatingNFPA RatingHealth hazard: 1Health hazard: 1Chronic Health Hazard: *Fire Hazard: 0Flammability: 0Reactivity Hazard: 0

Physical Hazard 0

Further information

User is granted the ability to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Abrasive Technology, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

SDS PREPARATION INFORMATION ABRASIVE TECHNOLOGY, INC. DOUGLAS G. ANDERSON

DATE PREPARED: 07/01/2015

DATE REVISED:08/26/2015 PURPOSE OF REVISION: Information update