



SAFETY DATA SHEET

REVISION: 08/26/2015

8400 Green Meadows Dr.
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ELECTROPLATED GRINDING PRODUCTS

STEEL or FLEXIBLE
DIAMOND OR CUBIC BORON NITRIDE

1. PRODUCT & COMPANY INFORMATION

1.1 PRODUCT IDENTIFIER(S)

PRODUCT NAME: ELECTROPLATED GRINDING PRODUCTS
STEEL or FLEXIBLE/DIAMOND OR CUBIC BORON NITRIDE

PRODUCT CODES: 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: Danger

Hazard statements

H318 Skin sensitisation (Category 1)

H351 Carcinogenicity (Category 2)

H372 Specific target organ toxicity - repeated exposure, Inhalation (Category 1)

H402 Acute aquatic toxicity (Category 3)

H412 Chronic aquatic toxicity (Category 3)

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Signal word: Danger

Pictograms



GHS08



GHS07

Hazard statements

H318 Skin sensitisation (Category 1)

H351 Carcinogenicity (Category 2)

H372 Specific target organ toxicity - repeated exposure, Inhalation (Category 1)

H402 Acute aquatic toxicity (Category 3)

H412 Chronic aquatic toxicity (Category 3)

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/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective 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 advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

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

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

ELECTROPLATED PRODUCTS MAY CONTAIN ANY OF THE FOLLOWING INGREDIENTS, BUT NOT NECESSARILY ALL OF THEM. TAKE APPROPRIATE PRECAUTIONS. MOST OF THE SAFETY INFORMATION IS BASED ON NICKEL EXPOSURE.

		SARA 313			ACGIH	
CHEMICAL NAME	COMMON NAME	Y/N	CAS #	OSHA PEL	TLV	CARCINOGEN
INDUSTRIAL DIAMOND	***	N	7782-40-3	***	***	N/CLASS 4
CUBIC BORON NITRIDE	CBN	N	10043-11-5	***	***	N/CLASS 4
NICKEL	***	N	7440-02-0	1 mg/m ³	1 mg/m ³	Y/CLASS 2B
STEEL CORE	***	N	12597-69-2	***	***	N/CLASS 4
FLEXIBLE CORE	***	N	***	***	***	N/CLASS 4

COMPOSITION IS PROPRIETARY. ELECTROPLATED ITEMS DO NOT CONTAIN MERCURY OR CHROMIUM.

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.

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

6.1 Personal precautions, protective equipment and emergency 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.

6.4 Reference to other sections

For disposal see section 13.

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).

7.2 Conditions for safe storage, including any incompatibilities

No special storage requirements.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Please see information on “Occupational Exposure Limits” in the “COMPOSITION/INFORMATION ON INGREDIENTS” in Section 3.0

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

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).

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.

EXPOSURE GUIDELINES - NICKEL

<u>COMPONENT</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH IDLH</u>
NICKEL	TWA: 1.5 MG/M ³	TWA: 1 MG/M ³ (VACATED)	IDLH 10 MG/M ³ TWA: 0.015 MG/M ³
<u>COMPONENT</u>	<u>QUEBEC</u>	<u>MEXICO OEL</u>	<u>ONTARIO</u>
NICKEL	TWA: 1MG/M ³	<u>(TWA)</u> TWA: 1 MG/M ³	<u>TWAEV</u> TWA: 1 MG/M ³

LEGEND

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

BASED ON NICKEL

Physical State	Solid
Appearance	Silver
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	1455 °C / 2651 °F
Boiling Point/Range	2730 °C / 4946 °F
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 1810 °C
Vapor Density	No information available
Relative Density	8.9 g/mL at 25 °C (77 °F)
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature (Dust)	400 °C / 752 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	Ni
Molecular Weight	58.7
<u>9.2 Other safety information</u>	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

None under normal processing.

10.4 Conditions to avoid

Incompatible products. Excess heat. Avoid dust formation.

10.5 Incompatible materials

acids, Oxidizing agents, Sulphur compounds, Hydrogen gas, Oxygen, Methanol, organic solvents, Aluminium, Fluorine, Ammonia

10.6 Hazardous decomposition products

Nickel oxides

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

The toxicological information is based mostly on the presence of nickel. Most other ingredient are either in too low of a quantity or are inert.

Acute toxicity

No data available

Inhalation:

No data available

Dermal:

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

May cause sensitization by skin contact.

Germ cell mutagenicity

No data available

Carcinogenicity

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B:

Possibly carcinogenic to humans (Nickel)

NTP:

Reasonably anticipated to be a human carcinogen (Nickel)

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

11. TOXICOLOGICAL INFORMATION (CONT.)

Reproductive toxicity No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure

Inhalation - Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard No data available

Additional Information

RTECS: QR5950000

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 - Cyprinus carpio (Carp) - 1.3 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 1 mg/l - 48 h

12.2 Persistence and degradability Not applicable

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

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)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

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 part 372 (EPCRA):

	<u>CAS-No.</u>	<u>Revision Date</u>
Nickel	7440-02-0	2007-07-01

SARA 311/312 Hazards:

- N – Fire Hazard
- N – Sudden Release of Pressure
- N – Reactivity
- Y – Acute Health**
- Y – Chronic Health**

Massachusetts Right To Know Components

Nickel **CAS-No. - 7440-02-0** **Revision Date - 2007-07-01**

Pennsylvania Right To Know Components

Nickel **CAS-No. - 7440-02-0** **Revision Date - 2007-07-01**

New Jersey Right To Know Components

Nickel **CAS-No. - 7440-02-0** **Revision Date - 2007-07-01**

California Prop. 65 Components: WARNING! This product contains a chemical known to the State of California to cause cancer.

Nickel **CAS-No. - 7440-02-0** **Revision Date - 2007-07-01**

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

HMIS Rating

Health hazard: 2

Chronic Health Hazard: *

Flammability: 0

Physical Hazard 0

NFPA Rating

Health hazard: 2

Fire Hazard: 0

Reactivity 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