abrasive technology
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SAFETY DATA SHEETS

8400 Green Meadows Dr.
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Lewis Center, OH 43035

P: 740.548.4100
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SAFETY DATA SHEET

REVISION: 05/04/2016

DIAMOND SLURRY

1. PRODUCT & COMPANY INFORMATION

1.1PRODUCT IDENTIFIER(S) **DIAMOND SLURRY**
LUBRICANT W/ABRASIVE
C5412410 – ½ MICRON
C5412430 – 1 MICRON

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**

1.3EMERGENCY 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

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

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

none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

MINERAL OIL	**CAS-No. : 8042-47-5**	**98% by WT**
	EC-No. : 232-455-8	**2 % by wt**
Micron Sized Industrial Diamond	**CAS# 7782-40-3**	

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled

If inhaled, 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. Get medical attention if irritation persists.

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 breathing vapors, mist or gas.
For personal protection see section 8.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

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 precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Combustible liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Mineral oil	8042-47-5	TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Remarks		Upper Respiratory Tract irritation Not classifiable as a human carcinogen

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

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).

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.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 480 min

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 30 min
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, 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 not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	**Form: liquid Color: colorless**
b) Odor	**odorless**
c) Odor Threshold	**No data available**
d) pH	**No data available**
e) Melting point/freezing point	**Melting point/range: ca.-14.99 °C (5.02 °F) at ca.1,013 hPa (760 mmHg)**
f) Initial boiling point and boiling range	**218 - 800 °C (424 - 1,472 °F) at ca.1,013 hPa (760 mmHg)**
g) Flash point	**> 112 °C (> 234 °F) - closed cup - ISO 2719**
h) Evaporation rate	**No data available**
i) Flammability (solid, gas)	**No data available**
j) Upper/lower flammability or explosive limits	**No data available**
k) Vapour pressure	**<= 0.0001 hPa (<= 0.0001 mmHg) at a.20 °C (68 °F) - OECD Test Guideline 104**
l) Vapour density	**No data available**
m) Relative density	**0.81 - 0.89 g/cm3 at 15 °C (59 °F) -**
n) Water solubility	**No data available**
o) Partition coefficient:	**noctanol/water No data available**
p) Auto-ignition temperature	**325 - 355 °C (617 - 671 °F) at 1,013.25 hPa (760.00 mmHg)**
q) Decomposition temperature	**No data available**
r) Viscosity	**> 20.5 mm2/s at 40 °C (104 °F) -**
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	No data available
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	Strong oxidizing agents
10.6 Hazardous decomposition products	
Other decomposition products	No data available
In the event of fire:	see section 5

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity	LD50 Oral - Rat - male and female - > 5,000 mg/kg (OECD Test Guideline 401)
LC50 Inhalation	Rat - male and female - 4 h - > 5 mg/l (OECD Test Guideline 403)
LD50 Dermal	Rabbit - male and female - > 2,000 mg/kg No data available (OECD Test Guideline 402)
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404)
Serious eye damage/eye irritation	Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)
Respiratory or skin sensitization	Buehler Test - Guinea pig Did not cause sensitisation on laboratory animals. (OECD Test Guideline 406)
Germ cell mutagenicity	in vitro assay S. typhimurium Result: negative (OECD Test Guideline 406)

11. TOXICOLOGICAL INFORMATION (CONT.)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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.

Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

Additional Information

Repeated dose toxicity - Rat - female - Oral - No observed adverse effect level - 1,600 mg/kg Lowest observed adverse effect level - 160 mg/kg RTECS: Not available

Aspiration may lead to lipid pneumonia, Effects due to ingestion may include:, laxative effect, Gastro intestinal disturbance, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test LC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h(OECD Test Guideline 202)

12.2 Persistence and degradability No data available

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 No data available

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.

14. TRANSPORT INFORMATION

DOT (US)	IMDG	IATA
NOT A DANGEROUS GOOD	NOT A DANGEROUS GOOD	NOT A DANGEROUS GOOD

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
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Mineral oil	8042-47-5	

New Jersey Right To Know Components

Mineral oil	CAS-No. 8042-47-5	Revision Date

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating
Health hazard: 0
Chronic Health Hazard: *
Flammability: 1
Physical Hazard 0

NFPA Rating
Health hazard: 0
Fire Hazard: 1
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: 05/04/2016
DATE REVISED: PURPOSE OF REVISION: