

SAFETY DATA SHEET

REVISION: 08/26/2015

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

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CRYSTALUBE™ - CUTTING LUBRICANT

1. PRODUCT & COMPANY INFORMATION

1.1 PRODUCT IDENTIFIER(S) **CRYSTALUBE™
CUTTING LUBRICANT
1 DRAM – C5423010
1 OZ. – C5423030**

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 2897

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	100%
	EC-No. : 232-455-8	

Composition is proprietary

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/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m ³	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m ³	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m ³	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

<u>10.1 Reactivity</u>	No data available
<u>10.2 Chemical stability</u>	Stable under recommended storage conditions.
<u>10.3 Possibility of hazardous reactions</u>	No data available
<u>10.4 Conditions to avoid</u>	No data available
<u>10.5 Incompatible materials</u>	Strong oxidizing agents
<u>10.6 Hazardous decomposition products</u>	
<u>Other decomposition products</u>	No data available
<u>In the event of fire:</u>	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 <i>S. typhimurium</i> 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)

NOT A DANGEROUS
GOOD

IMDG

NOT A DANGEROUS
GOOD

IATA

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

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

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

NEPA 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: 07/01/2015

DATE REVISED: 08/31/2015

PURPOSE OF REVISION: INFORMATION UPDATE